



SUBSCRIPTION 10/- PER ANNUM, POST FREE TO ANY PART OF THE WORLD.

Entered at Stationers' Hall.]

ESTABLISHED IN
ENGLAND ... 1859.
AUSTRALASIA ... 1885.

[Registered for Foreign Transmission.

No. 362. Vol. XXX.

MARCH 26, 1887.

{SUBSCRIPTION, 10s. PER ANNUM, INCLUDING
DIARY, POST FREE THE WORLD OVER.
SINGLE COPIES, 4d. EACH POST FREE.

Telegraphic Address: "ALLENBURYS LONDON."

ALLEN & HANBURY'S,

TRADE



MARK

A.D. 1715

Wholesale and Export DRUGGISTS, Manufacturing & Analytical CHEMISTS,

SPECIAL MANUFACTURERS OF

COD LIVER OIL. CASTOR OIL.
EFFERVESCENT PREPARATIONS.
FLUID EXTRACTS:
HYPODERMIC SOLUTIONS.
JUJUBES, PASTILLES, AND LOZENGES.

INFANTS' FOOD (Malted Farinaceous).
MALT EXTRACT AND FLUID EXTRACT.
NITRITE OF AMYL and other CAPSULES.
TINCTURES, INFUSIONS, EXTRACTS.
And other Pharmaceutical Preparations.

Price List on application.

Special quotations for Drugs in original packages.

PLOUGH COURT, LOMBARD STREET, LONDON.

WORKS—BETHNAL GREEN, LONDON; LONGVA and KJERSTADT, NORWAY.

HEAD OFFICE: 42 CANNON STREET, LONDON, E.C.

Telegraphic Address—BISMUTH LONDON.

MAY & BAKER

W. G. BAKER, R. C. HEATH, T. TYRER, W. E. B. BLENKINSOP

**MANUFACTURING CHEMISTS
BATTERSEA LONDON S.W.****MEDALS—1851, 1855, 1862, 1867, 1885.****WHOLESALE AND EXPORT ONLY.**
MAKERS OF**BENZOIC CALLIC PYROCALLIC
AND ALL PURE MINERAL ACIDS****(PURE) ETHERS (METHYLATED)****FOR ANÆSTHETICS PHOTOGRAPHY AND ICE MAKING****BISMUTH PREPARATIONS****SOLUTION OF AMMONIO-CITRATE OF BISMUTH P.B.***ALL FREE FROM SILVER LEAD ARSENIC &c &c &c***CORROSIVE SUBLIMATE
RED AND WHITE PRECIPITATE
PURE CALOMEL
& EVERY MERCURIAL PREPARATION****CONCENTRATED FRUIT ESSENCES & FLAVOURS
RASPBERRY ACID****SULPHITES & BISULPHITES OF LIME MAGNESIA POTASH & SODA****CYANIDES OF POTASSIUM****FOR GOLD & SILVER PLATING & PHOTOGRAPHY
LIQUID AMMONIA. 880.****REFINED CAMPHOR,****IN BELLS OR TABLETS, BY A NEW PATENT PROCESS.****AGENTS:****UNITED STATES—Mr. F. J. MACNAUGHTAN,
20 Cedar Street, NEW YORK.****AUSTRALASIA—Messrs. HARRISON & WHIFFEN,
6 Market Chambers, SYDNEY.****SCOTLAND—Mr. D. SINCLAIR, 55 East Howard
Street, GLASGOW.****IRELAND—Messrs. COLVIN & CO., 11 Usher's Quay,
DUBLIN.**

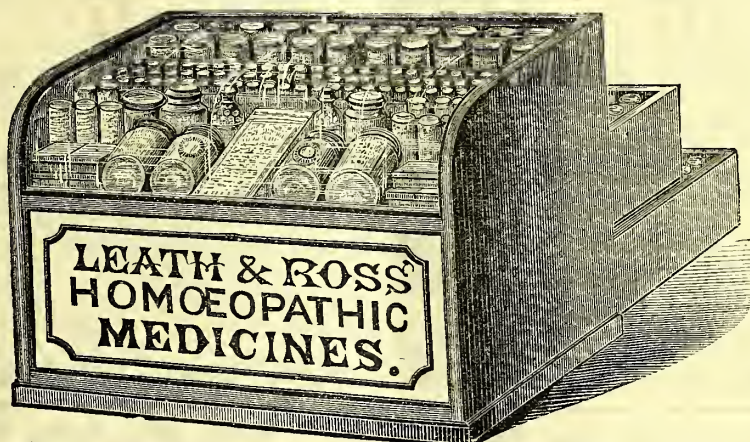
LEATH & ROSS'S HOMŒOPATHIC PHARMACIES

9 VERE STREET, W.,
And 5 ST. PAUL'S CHURCHYARD, E.C., LONDON.

OUR £10 10s. AGENTS' SHOW CASE.

Contents realise £17 17s. 8d.

DIMENSIONS.—Length, 18 in.;
Breadth, 13 in.; Height, 13 in.



DESCRIPTION.—A Handsome Bent Glass Case, with three drawers, the contents of top drawer visible, the Pilules and Tinctures arranged in the other two in alphabetical order.

WHOLESALE PRICE LIST OF MEDICINES PUT UP READY FOR SALE.

GLOBULES OF PILULES—

Sixpenny Tubes	...	2/9 per dozen.
Ninepenny "	...	4/3 "
Shilling "	...	5/- "

TINCTURES OR TRITURATIONS—

Sixpenny Bottles	...	2/9 per dozen.
Ninepenny "	...	4/3 "
Shilling "	...	5/- "

PROPRIETARY ARTICLES.

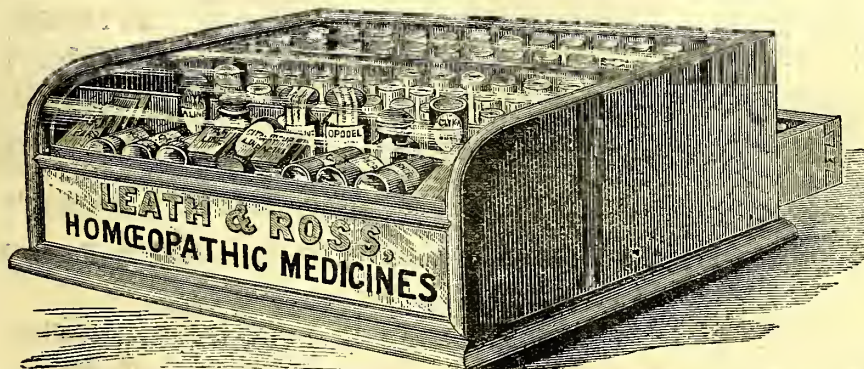
Neuraline	...	1/1½	Berberine	...	1/1½	Linimentum Auricularis	...	1/1½
Glykoline	...	1/1½	Chilblain Liniment	...	1/1½	Bryonia Liniment	...	1/1½
Phospho-muriate of Quinine	1/1½		Odontagie Essence	...	1/1½	Corn Eradicator	...	1/1½

All the above Proprietary Articles, 9/6 per dozen.

OUR £6 6s. AGENTS' SHOW CASE.

Contents realise £10 18s. 3d.

DIMENSIONS.—Length, 20 in.;
Breadth, 15½ in.; Height, 9½ in.



DESCRIPTION.—A Handsome Bent Glass Case, with two drawers, the contents of top drawer visible, the Pilules and Tinctures arranged in alphabetical order.

DATEY & CO

FOR NEARLY FIFTY YEARS AT
37, LOMBARD ST. LONDON

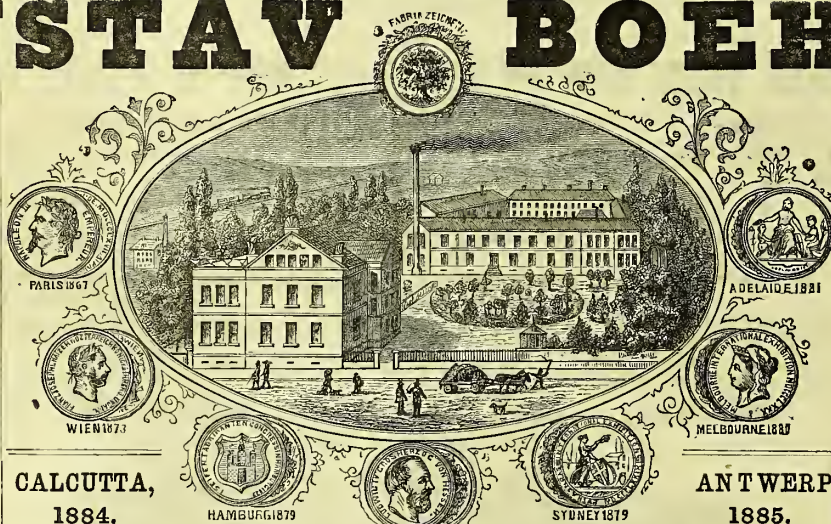
MANUFACTURING PERFUMERS.

Manufactory—49, SCRUTTON STREET, FINSBURY, E.C.
Bonded Perfume Warehouse—ST. KATHARINE'S DOCKE.
City Depot—19 & 20, WALBROOK, E.C.

COLD CREAM.
LAVENDER WATER.
PERFUMES & POMADES.
VIOLET POWDER.
BROWN WINDSOR.
TOILET SOAPS &c.

GUSTAV BOEHM,

SOAP
MAKER
AND
PERFUMER.



38 Moreland
Street,
City Road,
London, E.C.
and at
Offenbach
o/Main.

CALCUTTA,
1884.

ANTWERP,
1885.

BOEHM'S TRANSPARENT GLYCERINE SOAP, Manufactured with Pure Spirits of Wine and Purest Glycerine.

BOEHM'S HIGHLY SCENTED PURIFIED TOILET SOAPS—Ess. Bouquet, Jockey Club, Rose de Mai, Eau de Cologne, New Mown Hay, Lavender, Tea Rose, Violet, Mignonette, and many others.

BOEHM'S CALCUTTA GOLD MEDAL EXHIBITION SOAP, Assorted in Six Scents and Colours; a First-class Toilet Soap.

BOEHM'S TRIPLE, DOUBLE, AND SIMPLE EXTRACT OF FLOWERS, in Fancy, Plain, and Cut Glass Bottles, and in Bulk.

BOEHM'S LAVENDER, FLORIDA, AND COLONIAL TOILET WATERS.

BOEHM'S PETROSINE POMADE AND PETROSINE IN BULK (Petroleum Jelly).

BOEHM'S MENTHOL CHARMS AND CONES, made of Guaranteed Pure Menthol.

E. CHEESEMAN—J. HOLDSWORTH,
TRADING AS

OSBORNE, BAUER & CHEESEMAN,



Perfumers to the Queen.

19 GOLDEN SQUARE, REGENT ST., LONDON, W.,
MANUFACTURERS OF

THE BEST PERFUMERY IN ALL ITS BRANCHES; AND OF PURE REFINED SOAPS.

REFINED PERFUMED TOILET SOAPS, all kinds.

IMPROVED QUALITY, TABLETS, any size.. 84/ cwt

SUBJECT TO USUAL DISCOUNT.
IMPROVED QUALITY, Bars and Half Bars.. 80/ cwt.
FAMILY TABLETS, any size .. 64/ "
" Bars and Half Bars.. 60/ "

Old Brown Windsor.
Old Black Windsor.
Improved Brown Windsor.
"Carbolic Acid and Tar Soap."
"Cosmetic Petrolin Soap."
"Cosmetic Petrolin Soap" (unscented).

Juniper Tar Oil Soap.
"Marlborough Soap."
"Petroleum, or Dispensary Soap."
Pure Oatmeal Soap.
Sulphur Soap.
&c. &c. &c.

MEDICATED SOAPS OF ALL DESCRIPTIONS.

SOLE PROPRIETORS OF THE FOLLOWING SPECIALITIES—

ADVERTISED
ARTICLES

CHILBLAINS

THE BEST REMEDY IS
"CHILBLAIN JELLY"
(Registered),
PREPARED ONLY BY
Osborne, Bauer & Cheeseman.
In Metallic Tubes, 1/.

ALWAYS
SELLING.

**WINTER
SOAP.**

Prevent Chaps & Roughness of the Skin
BY USING
"PURE OATMEAL SOAP,"
Refined and Delicately Perfumed by
OSBORNE, BAUER & CHEESEMAN.
3 Tablets in Box, 1/ & 1/6; Bars and 1/ Bars, 1/ & 6d.

CHAPS

And Roughness of the Skin, use
"Glycerine & Honey Jelly"
(Registered Title).
For allaying Irritation caused by HEAT, and
ROUGHNESS occasioned by COLD WINDS.
Prepared only by
OSBORNE, BAUER & CHEESEMAN.
In Metallic Tubes, 6d. & 1/; Bottles, 6d., 1/, & 1/6.

OBTAINABLE
THROUGH

**LIP
BALM.**

"CRISTIN'S
RUBY LIP BALM"
(Registered),
For Softening, Preventing Cracks and Roughness, and
giving a RUBY COLOUR to LIPS. Super-
seding old-fashioned Lip Salves.
Metallic Tubes, 6d. and 1/.

ALL WHOLESALE
HOUSES.

"BABY'S SOAP." (The Original Registered Title.) Specially prepared for Children or Adults with tender skin. Wrapped
Tablets, 6d.

"BAUER'S HEAD (and BATH) SOAP." (Registered Title.) Cleanses, Strengthens, and Promotes the Growth of
the HAIR. A Luxury for BATH and TOILET. An excellent
SHAVING SOAP. Price 6d.

"THE INCOMPARABLE SMELLING SALTS"

(REGISTERED TITLE).
LATELY STYLED "INEXHAUSTIBLE,"
AS SUPPLIED TO THE QUEEN.

To protect the Trade and Public from the various imitations of their Celebrated SMELLING SALTS AS SUPPLIED TO THE QUEEN, O. B. & C. now
place over the Stopper of each Bottle a distinctive Guaranteed Label printed in Red Ink, bearing their Trade Mark.
Patterns—"Watch," "Victoria," "Fig," and "Globe shapes."

POPULAR PERFUMES.

Alexandra Bouquet.
Devonia Bouquet.

Mhogra-ka-Phul.
Princess Louise.

White Clover.
White Heliotrope.

CATALOGUE SENT FREE ON APPLICATION.

NOTICE!!!

THE MOST PROFITABLE BRAND.

THE FIRM OF MARIA CLEMENTINE MARTIN,

NUN

Of COLOGNE, having been awarded the SPECIAL FIRST PRIZE MEDAL
for their celebrated

EAU DE COLOGNE

AT THE

SYDNEY EXHIBITION, 1879,

HAVE THE PLEASURE TO ANNOUNCE TO THE PUBLIC THAT THEY HAVE ALSO OBTAINED THE
FIRST PRIZE MEDAL AT THE

MELBOURNE EXHIBITION, 1880.

They trust that the above distinctions conferred upon them by such expert judges will be sufficient
guarantee that the Eau de Cologne of their manufacture is, **without doubt, the best.** They beg
to append a List of Prize Medals obtained at other Exhibitions:—

**LONDON, 1851; RHENISH PROVINCES, 1852; NEW YORK, 1853;
PARIS, 1855; LONDON, 1862; VIENNA, 1873.**

The above firm only export to England their DOUBLE Eau de Cologne, and request their customers, in
comparing the prices of the different Brands, to take into consideration that the bulk of those sold with
the white label are Single (or only half strength of the Double), which enables the Makers to sell at a
low price with great profit. If they will trouble to compare the subjoined prices with those of any firm
manufacturing **Eau de Cologne DOUBLE**, the comparison will be greatly in favour
of our Brand.

PRICE LIST.

Duty Paid, Net. In Bond.				Duty Paid, Net. In Bond.			
No. 1.—Half Shorts ...	...	8/-	5/-	No. 4.—Long Green Flasks ...	...	15/-	10/-
No. 2.—Shorts ...	...	15/-	10/-	No. 5.—Wickered Bottles (Small)...	...	25/-	17/3
No. 3.—Shorts (finely Wickered) ...	...	20/-	15/-	No. 6.—Wickered Bottles (Medium)	...	50/-	34/6
No. 7.—Wickered Bottles (Large) ...				100/- duty paid, net; 69/- in bond.			

Small Cases assorted to order (of not less than £3 value in bond) delivered free freight, less 7½ per cent. discount.

SOLE AGENT FOR GREAT BRITAIN AND IRELAND:

H. C. MASON, LONDON.

London Depot: 1 & 2 Australian Avenue, London, E.C.

MANN'S PERFUMES.

The accompanying cut represents a facsimile of our Pound Bottle, containing 18 fluid ounces, with elongated and etched stopper for trying the odours. We have arranged our Perfumes into ranks according to popularity and demand; those having the most ready sale comprise the first rank, then, next in order, the second rank, then the third rank. This plan gives the Druggist at a glance a more comprehensive idea of our line, and also enables him to make his selection according to the general popularity of the odours. We would always advise a full line of all the perfumes kept in stock, as the second and third ranks contain many odours desired by persons of special tastes, and, while they are not generally of as ready sale as those of the first rank, yet they are always staple. The goods are all made of the same degree of strength, and are intended to be of equal desirability, yet some will take precedence in popular favour over others. We make only the finest quality of Perfumes, which are especially designed to meet the demand of the best drug trade throughout the world.

PERFUMES OF THE FIRST RANK IN POINT OF POPULARITY.

**Lady of the Lake.
White Lilac.
White Rose.
Heliotrope.
Jockey Club.
New Mown Hay.
Lily of the Valley.
Prairie Flower.
Wild Lotus.
Queen of May.
Myrtle Bloom.
Ylang Ylang.
Stephanotis.
Violet.**

PERFUMES OF THE THIRD RANK IN POINT OF POPULARITY.

**Musk.
Patchouly.
Rose Geranium.
Tea Rose.
Rondeletia.
Night Blooming Cereus.
Ess. Bouquet.
Millefleurs.**

 *Illustrated Catalogue
furnished upon application.*

PERFUMES OF THE SECOND RANK IN POINT OF POPULARITY.

**Carnation Pink.
Mignonette.
Ocean Spray.
Tuberose.
Jasmin.
Moss Rose.
Pond Lily.
Frangipanni.
Orange Blossom.
Musk Rose.
Trailing Arbutus.
Honey Suckle.
Sweet Briar.
Sweet Pea.
West End.
White Heliotrope.
Wood Violet.**

PRICE LIST.

	Per doz.
1 oz., assorted odours...	8/
1/2 " " " " " "	14/
1 1/2 " " " " " "	20/
2 1/2 " " " " " "	32/
3 1/2 " " " " " "	42/
4 1/2 " " " " " "	62/
9 " " " " " "	112/
18 " " " " " "	216/
1 " " " " " "	Tourist 16/
Small trial size, per gross	23/
Large " " " "	35/

Our Perfumes combine richness of fragrance with delicacy and permanence of odour. They may be handled and retailed either from bulk or in small packages, both in cold and warm climates, without appreciable deterioration of quality. They take the lead and enjoy the preference in all countries wherever introduced.

Hoping to receive your orders, we are,

Yours very respectfully,

C. A. MANN & CO., 43 MURRAY ST., NEW YORK CITY, U.S.A.



FINEST ENGLISH PERFUMERY.

SEVEN PRIZE MEDALS AWARDED.



CONCENTRATED PERFUMES, of great fragrance and strength.

TANGLEWOOD,	WHITE ROSE,	CROWN BOUQUET,	} 16/, 20/, 28/, 48/, and 84/ per doz.
OPOPONAX,	MATHIOLA,	WHITE HELIOTROPE,	

EXTRA CONCENTRATED DITTO, CRAB-APPLE BLOSSOMS, 20/, 33/, 48/, and 60/ per doz.

"Under the title of CRAB-APPLE BLOSSOMS, the Crown Perfumery Co., of 177 New Bond Street, are now selling one of the most fragrant and delightful perfumes ever manufactured. The uniform excellence of all the goods which bear upon them the name of this well-known firm scarcely needs further comment here, since our readers are probably already aware of their exceptional merit. At the same time, it is well perhaps to call attention to the fact that this 'Crab-Apple Blossom' scent has all the charm of freshness and distinct novelty. It is totally unlike any of those commonplace perfumes with which we meet in all directions, and it reminds one at once of all the sweet and delightful scents of the country.—*Lady's Pictorial*."

THE CROWN SOAPS, finest quality, richly scented, HONEY, BROWN WINDSOR, &c., &c., 84/ per cwt.

SAPO-LAVANDE, the new Transparent Soap, perfumed with finest Lavender, 48/ per gross.

BEST OLD ENGLISH TRANSPARENT SOAP, unscented, 36/ per gross.

" " " " highly perfumed, 72/ per gross.

"We have chemically examined your Best Unscented Transparent Soap, and we conclude that it contains no cocoanut oil, is quite neutral, and is not inferior to the highest priced soap in the market. We shall recommend it to all our customers.—Yours faithfully, (Signed) CHURCHILL & SON, Pharmaceutical Chemists, 46 New Street, Birmingham."

PURE COAL TAR SOAP, the finest made, 27/ per gross.

INVIGORATING LAVENDER SALTS, Registered.—The new and popular smelling salts, 16/ and 32/ per dozcu.

WHITE CHERRY TOOTH PASTE, 7/ and 10/6 per dozen.

OPALINE FACE POWDER, 3/6, 7/, and 15/ per dozen.

OPALINE CREAM, the great beautifier, so highly recommended by Madame Adelina Patti, 18/ and 24/ per doz.

SIR ERASMUS WILSON'S HAIR WASH, the Best Restorer, 18/ and 30/ per doz.

THE CROWN PERFUMERY COMPANY,
177 NEW BOND STREET, LONDON.

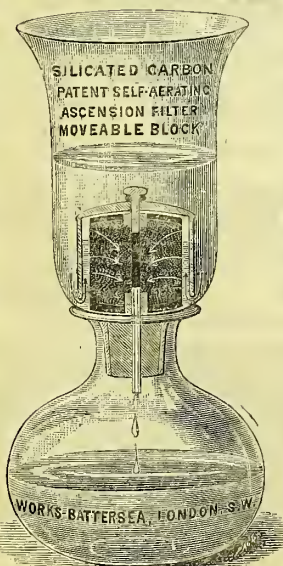
New Illustrated Price List free by post, also Show-cards on receipt of instructions for enclosure—all communications to be addressed to the Manufactory, NEW FAIRFIELD WORKS, 49 OLD BAILEY, LONDON, E.C.



AERATED AND FILTERED WATER.

SILICATED CARBON PATENT SELF-AERATING MOVEABLE BLOCK FILTERS.

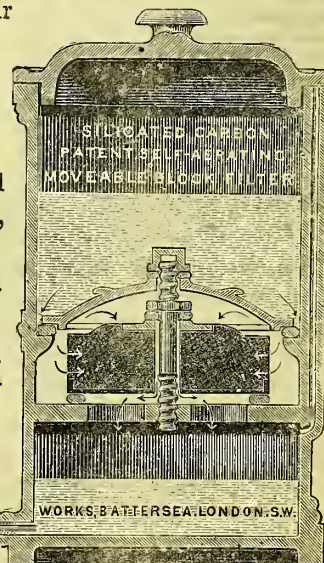
LIBERAL DISCOUNT TO THE TRADE.



Glass Table Filters.

Each time that the Filter is filled the air under the Aerator Cover is forced in the direction shown by the arrows through the Silicated Carbon Block, so that the Water is & Filtered simultaneously rendering it BRIGHT, & AERATED PURE, PALATABLE.

The Silicated Carbon Block can be instantly removed, leaving the whole of the Filter OPEN for inspection and cleansing.



Domestic Filters.

LIBERAL DISCOUNT TO THE TRADE.

SILICATED CARBON FILTER CO. WORKS: BATTERSEA, LONDON.

WRITE FOR FULL ILLUSTRATED PRICE LISTS TO THE



NESTLE'S MILK FOOD FOR INFANTS.

ALSO WELL ADAPTED FOR CHILDREN AND INVALIDS.

Prepared at VEVEY, SWITZERLAND.



The only Perfect Supplement and Substitute for
Mother's Milk.

Easy of Preparation—requires merely the addition
of water.

UNIVERSALLY RECOMMENDED BY PHYSICIANS.

SPECIAL NOTICE & CAUTION.

BRAND & CO.

The Original Manufacturers of Essence of
Beef (green label under wrapper), and
other Specialities for Invalids, have

NOT REMOVED

From their SOLE ADDRESS, No. 11
LITTLE STANHOPE STREET, MAY-
FAIR, W., and caution the trade to

BEWARE of IMITATIONS.

BRAND & CO'S
ESTD 1835.
SPECIALTIES FOR INVALIDS

ESSENCES OF BEEF,
MUTTON, VEAL & CHICKEN,
BEEF TEA, TURTLE SOUP & JELLY,
MEAT LOZENGES &c.

SOLE ADDRESS
No. 11,
LITTLE STANHOPE
ST.
MAYFAIR, W.

THE LONDON HOMŒOPATHIC HOSPITAL AND MEDICAL SCHOOL, GREAT ORMOND STREET.

A NEW WARD, unoccupied for want of funds, is much needed for Male Patients, and will be opened as soon as sufficient funds to support it are received. The Hospital now contains eighty beds. Trained Nurses are sent out at moderate fees for Medical, Surgical, or Accommodation cases, the latter specially Certificated.
G. A. CROSS, Secretary.

Second Edition, re-written and greatly enlarged. With 37 Illustrations on Wood. 8vo. price 24s.

SELECT METHODS IN CHEMICAL ANALYSIS (Chiefly Inorganic).

By WILLIAM CROOKES, F.R.S., V.P.C.S., Editor of *The Chemical News*.
London: LONGMANS, GREEN & CO.

NEW EDITION OF "THOMSON'S CONSPPECTUS."
13mo. price 6s.

THOMSON'S CONSPPECTUS.

Adapted to the British Pharmacopœia of 1885.
Edited by NESTOR TIRARD, M.D. Lond., F.R.C.P.
New Edition, with an Appendix containing notices of some of the more important non-official Medicines and Preparations.
London: LONGMANS, GREEN & CO.

TRADE MARK PROTECTION ASSOCIATION,

2 Lancaster Place, Strand, London.

The attention of Manufacturers is directed to the facilities now offered for REGISTERING TRADE MARKS in foreign countries and colonies.

Registration in the United Kingdom affords no protection abroad except upon completion of the formalities required in the countries or colonies where protection is sought.

Inquiries respecting infringements should be accompanied by copies of the genuine mark and of the alleged counterfeit.

Searches respecting marks already registered are undertaken for subscribers gratuitously. Non-subscribers are required to pay a small fee, the amount of which is subsequently allowed upon instructions being given for registration.

P. VARNALS, Secretary.

THE LIVERPOOL SCHOOL OF PHARMACY, 36 OXFORD STREET, LIVERPOOL.

STAFF OF TEACHERS.

THE PRINCIPAL—J. S. WARD, Ph.Ch., Prize Medallist, &c.
DEMONSTRATORS—MR. J. T. HORNBLLOWER, MR. HAROLD WYATT.
FOR PRELIMINARY PUPILS—MR. PENDLEBURY.

ISSUE OF NEW SYLLABUS.

Owing to the continued development of the School it has become necessary to publish a new Syllabus. This is now ready, and contains full particulars of (A) the rise and progress of the School; (B) the method of teaching adopted; (C) the various classes for Major, Minor, and Preliminary Pupils, with time-tables and fees; (D) the curriculum for each class. This will be sent post free upon application to the Principal, and every Student should write for one, as the detailed curricula will serve as an excellent guide to him in his private study.

AGENTS WANTED.

FROM 7/6 TO 10/6

A.W. POLLARD.
MANUFACTURER OF IMPROVED

RUBBER STAMPS

BEST MAKE & FINISH

PEN & PENCIL

WITH RUBBER STAMP PRICE 2/6 COMPLETE

NEW PATTERN BOOK 36 PAGES NOW READY.

MOST LIBERAL TERMS TO THE TRADE

PATTERN SHEETS FREE ON APPLICATION

30 - 32
LUDGATE HILL
LONDON E.C.

FROM 2/6 TO 2/

AGENTS WANTED.

THE WHOLESALE AND RETAIL Druggists' Price Book.

By D. ELLIOTT.

NEW EDITION, revised according to the British Pharmacopœia, 1885.

Pocket Size. Bound in Leather. Price 3s., Post Free 3s. 2d.

SAMPLES

FREE BY POST.

GLAISYER & KEMP'S PRICE BOOK

OF DRUGS, CHEMICALS, & PHARMACEUTICAL
PREPARATIONS, & SUNDRIES.

Revised according to the British Pharmacopœia, 1885.
Contents—183 printed and 9 blank pages, ruled throughout for lb., oz., dr., &c. Sundries ruled per doz., gross, &c.
Post 4to, Strongly Bound, Half-calf, 10/6.

SILVERLOCK'S

CHEMISTS' COUNTER BILLS

GOOD QUALITY, 7½ × 5 10,000, 15/	SECOND QUALITY, 7½ × 5 10,000, 12/6
9 × 5½ 10,000, 22/6	9 × 5½ 10,000, 18/

CHEMISTS' SLIP LABELS

FROM 1/ PER 1000; A REDUCTION ON LARGE QUANTITIES.

CHEMISTS' PILL LABELS

FROM 1/3 PER 1000; A REDUCTION ON LARGE QUANTITIES.

COPPER-PLATES FOR SLIP AND DISPENSING LABELS ENGRAVED FREE OF CHARGE.

Labels of every description, Price Lists, Illustrated Trade Catalogues, Prospectuses, Pamphlets, Show Cards, &c.

JOHN BELL & CO.'S PRICE BOOK

OF
DRUGS, CHEMICALS, AND PHARMACEUTICAL
PREPARATIONS.

Contents—133 printed and 16 blank pages, ruled throughout for cwt., lb., oz., dr.; or lb., oz., dr., gr.
Post 4to, Strongly Bound, Half-calf, 10/6.

H. SILVERLOCK,
Medical Label & General
Printer,
92, BLACKFRIARS ROAD,
LONDON. S.E.

Liverpool Chemists' Price List,
Post Free 1s. 1d.

Manchester Retail Price List,
Post Free 1s. 1d.

NOTICE TO THE WHOLESALE & RETAIL TRADE.

On the 1st of May next,

MRS. JOHNSON'S AMERICAN SOOTHING SYRUP

will be issued in TWO SIZES, instead of One as heretofore. The Bottle hitherto sold at 2s. 9d. will retail at 1s. 1½d., and a larger 2s. 9d. size will be introduced.

*ANY STOCK IN GOOD CONDITION UNSOLD ON THE ABOVE
DATE WILL BE EXCHANGED FOR NEW.*

HANDSOME SHOW CARDS are in course of preparation, and any Chemist who will favour us by displaying one can have it sent to any Wholesale House for enclosure.

SOLE PROPRIETORS OF MRS. JOHNSON'S AMERICAN SOOTHING SYRUP—

BARCLAY & SONS, 95 FARRINGDON ST., LONDON.

E. A. HEARN & CO., LATE EARN, RIDDELL & CO., GLASS BOTTLE MANUFACTURERS, 381 to 383 KINGSLAND ROAD, LONDON, E.



Glass Bottles of every description, either Plain or Stoppered, made in White, Blue, Amber, Actinic Green, or any other colour required. Screw Nickel Capped Pomades, Honey Pots, Jelly Jars, &c., &c.

Makers of Opal Glass Covered Pots, in all sizes, which are far more Handsome and Cheaper than Earthenware.



HEARN'S PATENT GLASS SCREW STOPPERED FEEDING BOTTLES are the MOST PERFECT and Best to be obtained, and command a Ready Sale wherever introduced.

Special Attention given to Quality. Quotations Post Free to any part of the world on application. The above will be found the BEST and CHEAPEST HOUSE in the TRADE.

For
Dispensing,
Drugs, Oils,

GLASS

Mineral Waters,
Perfumery,
Patent Medicines.

KILNER BROTHERS,



No. 3 Gt. N. GOODS STATION, KING'S CROSS, LONDON.

FEEDERS
in great variety,
of

BOTTLES

Best Quality.
Price Lists
Free on application.

DISPENSING BOTTLES AND PHIALS.

Special attention is called to our "New Crystal Blue Tinted," being handsome colour and clear glass. We supply them, 3 and 4 oz., 8/; 6 and 8 oz., 9/ per gross. A sample bottle forwarded on application.

WHITE MOULDED PHIALS AT VERY LOW PRICES.

I. ISAACS & CO.,

GLASS BOTTLE MANUFACTURERS
25 Francis Street, Tottenham Court Road, London, W.C.
Established upwards of 50 years.

GEORGE HAYNES & CO.,

Hampstead Cotton Mills,
CHERRY TREE LANE, STOCKPORT,
MANUFACTURERS OF

Bleached and Absorbent Wools,
GREY WOOL,
COLOURED WOOLS, AND JEWELLERS' SHEETS.
WHOLESALE AND EXPORT ONLY.

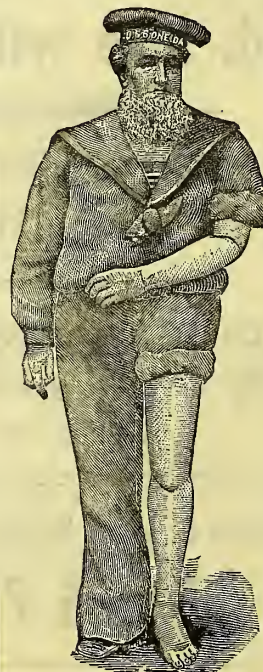
Telegraphic address—HAYNES STOCKPORT.

12

LEGS AND ARMS

(ARTIFICIAL),

WITH RUBBER FEET AND HANDS.



Indorsed by the U. S. Government, the Industrial Exhibition Commissioners of New York, Philadelphia, Atlanta, New Orleans, &c., the most Eminent Surgeons in the Country, the Press, and Over 8,000 Men, Women, and Children who wear them residing in all parts of the World.

The Rubber Foot and Hand possesses the most natural appearance, the greatest durability, and the greatest degree of comfort of all artificial limbs. Vast numbers of mutilated men and women are, by the use of rubber feet and hands, enabled to mingle with the rest of the world without betraying their loss or experiencing great inconvenience.

Farmers, mechanics, professionals, and even athletes who have lost one or more of their limbs are enabled to resume their vocations by the use of these remarkable inventions.

The accompanying engraving represents a sailor of the late rebellion who lost his leg and arm by the explosion of a shell in a naval combat. He has been practically restored to his usefulness by the application of Mark's Patent Artificial Limbs with rubber hands and feet.

Illustrated pamphlet of 160 pages, containing over 300 testimonials, sent free. Also a copyright Formula from which artificial limbs can be made and sent to all parts of the world without the presence of the patient, with guaranteed success.

A. A. MARKS,
701 Broadway, New York, U.S.A.

A copy of this Supplement is inserted in every number issued of "THE CHEMIST AND DRUGGIST."

SPECIAL EXTRA SUPPLEMENT.
MARCH 26,
1887.

BUSINESSES WANTED.
BUSINESSES FOR SALE.
PREMISES TO LET.

PARTNERSHIPS.
SITUATIONS WANTED.
SITUATIONS VACANT.

AUCTION SALES
EXCHANGE COLUMN

Advertisements for this Supplement must be prepaid, and can be received at the Office, 42 Cannon Street, until 5 p.m. on Thursday afternoon, or by first post on Friday morning of each week.

Remittances payable to EDWARD HALSE, crossed MARTIN & CO. Stamps are taken in payment.

The Terms for Advertisements in this Supplement will be found printed under each heading.

Further Proof of the Value of "THE CHEMIST AND DRUGGIST" as an Advertising Medium.

"It is only right I should at once become a subscriber to your Paper, as I got my first and only situation as Assistant, and also this business, through seeing advertisements therein."

177/34.

OFFICE: 42 CANNON STREET, LONDON, E.C.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.,

CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The Business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on Value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

Particulars of any of the following will be sent free on application:—

1.—**LONDON, E.**—Good ready-money Business for immediate disposal; returns at present nearly £800; profits large; double-fronted, well-fitted shop; convenient house and garden; price £650.

2.—**LONDON, S.W.**—Good-class Retail and Dispensing, with Post Office attached; large double-fronted shop; returns at present about £400 yearly; capable of great extension: good house; price about £400.

3.—**LONDON, S.W.**—Good ready-money neighbourhood; old-established Business for disposal; held by same family nearly half a century; returns, at present, over £800 yearly; profits above the average; good house and garden; price £650; worth attention.

4.—**LONDON, E.**—Retail and Prescribing Business in ready-money locality; returns, at present, under indifferent management £7 per week; can easily be increased; good eight-roomed house; about £200 required, or offer.

5.—**HANTS.**—Good town; Retail and Business of good class; returns gross, nearly £1,900, with several valuable specialities attached; good house; price, to include all proprietary articles, about £2,000; please enclose card or London reference.

6.—**WEST OF ENGLAND.**—Unopposed Business; Retail and Dispensing, with Prescribing: returns nearly £400; full prices; good house; well stocked garden with out-buildings; about £200 required.

7.—**WILTSHIRE.**—Good town; Retail and Dispensing Business, with wine and spirit trade attached; returns nearly £800 yearly; can easily be increased; net profits about £300; good house; large attractive garden, well stocked with fruit and flowers; price about £650.

8.—**SURREY**—Attractive locality; small branch Business for immediate disposal; capable of great extension; returns, at present, about £400 yearly; well-fitted lock-up shop; price about £275; rent £32.

9.—**EASTERN COUNTIES.**—Through dissolution of Partnership, the oldest Business in the county for immediate disposal; returns £1,200; profits above the average; about £1,000 on valuation.

10.—**SOMERSET.**—Good market town; Retail and Dispensing Business of good class; returns, under manager, nearly £400; can easily be doubled by principal; good house; open to the fullest investigation; exceptional opportunity for a beginner; about £400 required.

11.—**NOTTINGHAMSHIRE.**—Good town; genuine Retail and Dispensing; returns, last year, £450; good house; low rental; corner shop; price about £220.

12.—**SUSSEX (SEASIDE).**—Fashionable watering-place; first-class Retail and Dispensing; returns, under manager, about £700; capable of being largely increased; large, handsome double-fronted shop; about £500 required.

WANTED.

WANTED.—FIRST-CLASS DISPENSING BUSINESSES, EITHER IN LONDON OR GOOD PROVINCIAL TOWNS—PROFITS NOT UNDER £500 YEARLY.

WANTED.—PARTNERSHIP, IN A WHOLESALE HOUSE, LONDON OR PROVINCES.

N.B.—NO CHARGE TO PURCHASERS. Other Businesses, Town and Country; particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms, where business of a confidential nature requires the especial attention of a London agent.

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

S. COLLIS, VALUER & TRANSFER AGENT,

No. 11 ABBEY YARD, BATH,

Offers an experience of over half a century, in every branch of the Business, as an inducement to both Buyer and Seller to entrust their interest to his advice and judgment.

Consultations Free, either by letter or orally.

References in London and the Provinces if required.

TO LET.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

TO CHEMISTS AND DRUGGISTS.—To be Let, with immediate possession, an old-established double-fronted corner Shop, well fitted, with dwelling-house attached, situated in one of the best positions of the rising port of Great Grimsby; a good opportunity for a steady, energetic man. For full particulars, apply to Markham Cook, Chemist and Valuer, 130 Victoria Street, Grimsby.

BUSINESSES WANTED.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

A GOOD-CLASS Dispensing and Retail Business, returning from £700 to £1,200. Particulars, with rent, taxes, net profit, and lowest cash price, to X. Y. Z., Messrs. Wright, Layman & Umney, Southwark Street, London.

IN a Country Town or Village, a Business, payment for the same to be made out of the receipts, by a well-qualified and competent gentleman; or would accept a working Partnership, to include the above terms; undeniable security. S. Martin, 5 Park Valley, Nottingham.

BRANCH or otherwise; London or Suburbs; busy thoroughfare preferred; cash deposit about £20, remainder by bills; Minor qualification; registered dentist. "Minor," 31 Devonport Road, Shepherds Bush.

A GENUINE Dispensing and Light-class Retail that will bear strict investigation. Principals or executors having such for disposal where the price required is between £600 and £1,000 are requested to send full particulars to "Chemist," 5 Lodge Road, Bevois Mount, Southampton.

BUSINESSES FOR DISPOSAL.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

LANCASHIRE.—A good Prescribing and Light Retail Business, established 14 years; returning about £700; good profits; ill-health sole reason for disposal. Full particulars from W. P. Lake, 11 Olive Mount, Higher Tranmere, Birkenhead.

YORKSHIRE (West Riding).—A good-class Light Retail and Dispensing Business, centrally situated in good business town of 80,000 inhabitants; returns £1,250, and increasing (last week £28); very profitable; shop handsomely fitted and well stocked; price £1,000, or reasonable offer; having taken larger business; every investigation allowed. Messrs. Berdoo & Co., 30 Jewry Street, Aldgate, City.

The British and Colonial Agency, Limited.

Chemists' Businesses, Partnerships, Openings, &c., London or Country, negotiated. Locum Tenens and Assistants supplied. Valuations, Investigations, &c., undertaken. Outstanding Accounts Collected.

PROSPECTUS FREE ON APPLICATION.

Address, The SECRETARY, 27 Margaret Street, Cavendish Square, London, W.

BONA-FIDE BUSINESSES WANTED.

FOR DISPOSAL, a really *bona-fide* West London Business, returning about £2,500 per annum; or Partnership entertained; half share, price £1,500; every investigation allowed. 1078, The British and Colonial Agency, Limited, 27 Margaret Street, Cavendish Square, W.

NORTH OF IRELAND.—Business for immediate Sale; chiefly Retail and Compounding; best position in important town; owner retiring; business sound and in full working order; profits over £600; will take actual cost of fittings, and market value of stock, about £900, part may remain if required. "Hybern," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DENTISTS.—Good opening for Dentist in the Isle of Wight, apartments, &c., over Chemist's shop, private side door; suit one who would not object to advertise a little; there is no advertising Dentist in the town. Full particulars, in first instance, to "Chemist," 4 Allenmouth Road, Victoria Park, London, E.

YORKSHIRE.—Centre of Manufacturing District.—To be disposed of, on easy terms, a good profitable old-established Wholesale and Retail Drug and Drysaltery Business; death of proprietor reason for disposal; principals only treated with. Full information on application to W., Box 40, Post Office, Manchester. N.B.—First-class opportunity for a capable and energetic man.

£80.—Fixtures, goodwill, trade utensils, and stock as it stands; in country town; extensive mining district; no opposition; corner shop; established by present proprietor 18 years; rent £22, with good house; a capital opening for a good prescriber and one who can extract teeth. Apply, in first instance, to "Medicus," care of Mr. Wildsmith, 23 Eastwood Mount, Middle Lane, Rotherham.

CHEMIST'S (Pharmaceutical, Dispensing, and Analytical); well-established General trade; about £400 per annum; proof; good prices; fine position; main junction road in suburban working neighbourhood; only chemists on estate; commodious shop, handsomely fitted; consulting-room, laboratory, and store; low rent; agreement for lease, fixtures, fittings, and working stock included; all at £360. Neary & Tyrrell, 15 Walbrook.

£900 returns; price £650; a good-class country Business, in pleasant market town, South of England; low rental; large house and garden; open to every investigation. Address, "Camphor," care of Hearon, Squire & Francis, 5 Coleman Street, E.C.

FOR IMMEDIATE DISPOSAL, a Dispensing and Family Business in a rapidly extending neighbourhood; over 2,000 new prescriptions in 2 years; rent £30; incoming £400. For further particulars, apply to B. B. B., care of Evans, Sons & Co., 56 Hanover Street, Liverpool.

£200, OR OFFER—For Immediate Disposal, a Genuine Old-established Retail, situate in the most populous part of Sydenham; average weekly takings for last five years £5 10s. (all ready money); under efficient management must increase; full investigation solicited. Apply to J. H. Emery, 62 Wells Road, Sydenham.

EXCHANGE COLUMN.

FOR DISPOSAL.

Dental.

Show sets of teeth, 10s. 6d. per set, upper or lower, best finish. 196/20.

Drugs and Chemicals.

About 40 lbs. mercury, 5 lbs. oil of cloves; offers? 191/6.

Sixteen 7-cwt. casks gelatinous silicate of soda, clear white; offers wanted. Livesey, Chemist, Preston.

Six dozen 2-drachm pure menthol cones, in metal screw hottles, 5s. per dozen. Tuuley, Chemist, Southsea.

4 ozs. Keith's leptandrin, 7s. 6d.; 4 ozs. Keith's podophyllin, 5s. 6d.; 3 ozs. vanilla pods (elect), 6s.; 1 lb. ess. bergam. (extra), 11s. T. H., 12 Canonbury Place, Islington, N.

About half ton hop resin; this is a very powerful extract of hops, and is admirably adapted for the manufacture of lozenges, pills, halls, &c.; price per lb., 12 lbs., 28 lbs.; offers requested. Hay, Chemist, Beverley Road, Hull.

3 lbs. hest pulverised gum acac., 12s.; 2 Crosby's (11s.), 13s. 6d.; 3 pectorine (2s. 9d.), 5s.; 4 Taylor's red oils (1s.), 2s.; 4 lbs. hac. cubeb, gennine, 3s. 6d. lb.; cash, or exchange Beecham's, Cockle's, Steedman's, or Holloway's, Fowler, Portsea.

Optical.

Spectroscopic prism, fine condition, weight 4 ozs., size 2 in. by 1½ in.; cost 37s. 6d., price 15s. Gibson, Chemist, Fleetwood.

Proprietary Articles.

One dozen 1s. 1½d. Feltwell's balsam aniseed, clean, 4s. Cavell, Long Sutton, Lincolnshire.

Small stock of the Yorkshire Veterinary Co.'s cattle medicines, in good condition. 183/5.

Ten boxes Golding's tasteless pills, 10 Felt-house's tic pills, 3 dozen African hair restorer; offers wanted. "Chemicus," 26 London Road, Liverpool.

Original case Hard's food, six dozen 1s., six dozen 6d. at 5s. and 2s. 6d. dozen, carriage paid, clean and fresh; one dozen neuriline, 7s. 6d., post free; two dozen Leath & Ross's 1s. pilules, nux vomica, aconite, &c., 4s. dozen, post free; three dozen 1s. nigrine, 4s. dozen, post free. Kemp, Horncastle.

Apparatus.

Sykes' hydrometer, by Bates, with glass, table-book, thermometer, complete; cost 47. 10s., price 2l. Sheel, Lowfell, Gateshead-on-Tyne.

Half-plate French rectilinear lens, half-plate view lens; both give splendid negatives; what offers? Ritson, Chemist, Carlisle.

Educational.

Attfield's "Chemistry," 6th edition, good condition, 5s. 6d.; Miller's "Chemistry," 1s. 6d.; Bellamy, Maiden Row, Louth, Lincs.

Watts's Fowne's "Chemistry," 2 vols. 10s. 6d.; "Everyone's Own Lawyer," 3s. 6d.; Fenwick's "Medical Treatment" (Student's), 3s. 9d.; Sewell's "Dental Anatomy," 2s. 6d.; Hogarth's Works, 12 vols., 25s. Gibson, Chemist, Fleetwood.

Shop Fittings.

Mahogany top counters, 10 ft. 6 in. and 7 ft. 6 in. with drawers and shelves. Kendall, Blyth.

Two show jars for window, same as Maw's fig. 3, but with Royal Arms, 27 inches high, including cover, perfect; price 30s. each. Hunn, Henley-on-Thames.

Entire fittings of branch shop, including bottles, plate-glass shelves, window fittings, lamp, &c., equal to new. "Horne," care of Ayrton & Saunders, Liverpool.

Several iron mercury hottles, offers wanted.

Lindsey, Leather Lane, Holborn, London.

Plate-glass show-case, mahogany, almost equal to new, with silvered back to open; three plate-glass shelves, polished edges, suitable for tooth and nail brushes, 16 ins. long, 13 ins. back to front, 10 ins. high, total height with mirror, 16 ins., price 2l. 2s. Hay, Chemist, Hull.

Glass Bottles.—Job lines.—About 10 gross each—3-oz. white, opal, and turquoise blue pomades, screw nickel-capped, 18s. per gross; 10 gross 4-oz. ditto, 20s.; 3 gross ½-oz., 10s.; 4 gross 2-oz. green-tinted pomades, screw nickel-capped, 8s. 6d.; 12 gross 6-dram oval essences, 4s.; 6 gross 10-oz. Kalis, hoxwood-topped corks, 18s.; 10 gross 1-oz. green vials, burst off, 1s. 9d.; 4 gross 4-oz. eau de Cologne, 10s.; 1 gross 14-oz. white limes, 10s.; 10 gross each, 1, 2, and 3-oz. turquoise covered pots, 16s., 20s., and 25s. per gross respectively, quality guaranteed; sample of either kind post free 4 stamps, or of each line 18 stamps. Address, Hearn, 381-3 Kingsland Road, London.

Formulae.

Reliable Recipes.—Cough balsam, lime and glycerine, rheumatic liniment, neuralgic tincture, cure unbroken chilblains, bronchial linctus, 6d. each; 6 for 2s. 6d. "Chemist," Edwards, Wye.

200 reliable recipes for preparations in everyday use. The latest addition is "Lanoline Toilet Cream," a delightful preparation from the new material "Lanoline;" must find a ready and profitable sale with every chemist as a novelty. Single recipes, 1s. 1d. each; three for 2s. 6d. Complete list posted on receipt of address. 63/45.

Set 15 practical recipes, with full instructions, for gonorrhoea, gleet, syphilis, and secondaries 3s. 6d.; sure thing for chemists in cutting districts; cough balsam, cost 3d. lb., keeps for years, suitable for wholesale and retail—I sell at 7½d. 8-ounce hottle, and prefer to sell one rather than prescribe, as the patient is sure to come again and recommend friends; success guaranteed: comprises three valuable recipes, 2s. 6d. A. Johnson, 64 Furness Hill, Sheffield.

Honest, reliable formulae:—"Spring Blossoms," the latest and most lovely perfume, resembles cherry blossom, quickly made, inexpensive; "Limes and Glycerine," snow-white, perfectly inseparable, guaranteed best and cheapest in the market; "Embrocatio Alb" (like Elliman's), best white oils made; "Lincolnshire Relish," mellow, piquant, appetising, mammoth bottle, retails 6d., good profit; "Liquor Santal Flav.," &c., mixes clear with water, splendid preparation, equaling Hewlett's or Richardson's, great saving; recipes with instructions, 1s. 1d. each, 3 for 2s. 6d., free. T. Brooks, Chemist, Louth, Lincs.

Miscellaneous.

Chain hoist, in good condition, cheap. Furnival and Eardley, Chemist, Hauley.

Two small stills, 11 and 23 gallons, for disposal. "Ozone," Calc Street Distillery, Chelsea.

Several Maignen's filters for disposal; "Cottage," 15s. for 6s. 6d.; 25s. for 10s.; 35s. for 14s. 6d.; "Bijou," 25s. for 10s.; 42s. for 18s. 195/30.

Water mattress, 72 ins. by 36 ins., as Fig. 13 Maw's catalogue, in use only a fortnight, as good as new; what offers? Apply, Spong & Son, Chemists, Biggleswade.

Window tickets of proprietaries or specialities, attractively hand written, white letters on chocolate ground, all sizes; sample card, any wording, 9½ by 5½ (or equivalent), 1s. 2d. G. Packer, Stationer, Louth.

Eau de Cologne (cannot be distinguished from genuine Farina), essence may flowers, delightful perfume, 3s. 6d. each, two 6s.; send for list. Hall, 170 Railway Approach, Shepherd's Bush, W.

Two cwt. bovine cattle spice, good condition, 30s. Rimmel's perfume fountain, cost 25s., perfect order, 15s.; two show stands; two shelves as fig. 4; Maw's show jar, Royal Arms, 21 inches high, as fig. 1; what offers? Parker, Chemist, Uttoxeter.

Approval if wished; two pairs Maw's silk elastic stockings, size 8, for 12s. 6d.; pair thread ditto, size 7, 3s. 6d.; six 1s. boxes oiled silk for 2s. 6d.; one 18-inch circular air cushion, 6s.; one 16-inch ditto, 5s.; cheap; all good condition; post free. Kemp, Horncastle.

Long white daffy corks, 6d. gross; aloes Barb. liver, 7d.; German chamomiles, 5d.; aniline red colouring for pork hutchers, 2s. 6d. pound; Dunhill's Pontefract cakes, 6d.; samples, penny stamp. Harrop, Chemist, Middleton, Lancashire.

Half-plate camera, screw adjustment, reversing back, 3 double dark slides, 2l. only; quarter-plate camera, 6 double dark slides, lens and stand, 30s.; both good as new, perfect bargains. Tylar, 31 Yates Street, Astou, Birmingham.

Case dentist's scaling, stopping instruments, ivory, good order; also key instrument; two mahogany bent-glass showcases, mirror spring door back, 30x17; few trusses, assorted; offers requested. Ridding, Docking, Norfolk.

Bracher's mixers; one ½ cwt., one 2½ cwt., cheap to make room for larger, the most perfect sifters and mixers invented; one Carter's disintegrator, will grind anything; one Barford & Perkins' mill, to grind corn, seeds, oil-cake, &c., shafting, pulleys, leather banding complete; "Enterprise" tincture press, new. On view and particulars from Goldstraw, Bilston, who wishes to purchase good shop-fittings.

WANTED.

Official Trade Marks Journal, any numbers. 196/3. Muter's "Analytical Chemistry." 30/40.

One copy of "The Art of Pharmacy" required; 1s. given for same. 67/42.

Microscope slides, any subjects; must be cheap. 197/14.

40- or 50-gallon benzoline drum. Marson & Son, Stafford.

Senna.—Send samples and prices to Furnival & Eardley, Chemists, Hanley.

A copy of the "Chemists' and Druggists' Diary" for 1887; 2s. 6d. offered. Glover, Chemist, 68 Spon Street, Coventry.

Old gold platina and dental metals for cash, or good mechanical work. Entwisle, 39 Shaw Street, Liverpool.

"Chemists' and Druggists' Diary," for 1883, and some useful veterinary work. Doubleday, Dorking.

Chemist and Druggist, February, 1886; state price. Ashfield, Chapel Street, Stratford-on-Avon.

Window enclosure, 10 ft. 3½ in., by 3 ft. 3½ in., 1 ft. 8 in. depth, glazed top, glazed doors. 196/22.

At once, a printing-press with necessary type for hand-hills, &c., in good condition; lowest price for cash. Address Cook, Chapel-en-le-Frith, Derbyshire.

Pereira's "Selecta Prescriptis," Hanbury's "Pharmacographia," Ince's "Grammar of Pharmacy," Muter's "Analytical Chemistry." J. Price, 8 Swan Bank, Bilston.

Address Wanted.

R. Henry, late of 6 Phoenix Street, Manchester, proprietor of "Kurartz," the Doctor's Cure. 26/87.

CHEMISTS AND DRUGGISTS; main road, North; handsomely-fitted shop, old-established, and doing a good trade. Full particulars of Driver & Perfect, 8 Seven Sisters Road, Holloway.

YORKSHIRE.—Old-established Retail and Mineral Water trade, in good market town, returning £1,500; vendor retiring; goodwill £100; stock and fixtures at valuation, about £700 to £800; part purchase money can remain on security; large house and premises. F. J. Brett, Valuer, 60 St. Stephen's Road, Leicester.

NOTTS.—Light Retail; returning £400, has done double, and would again with personal attention; good shop and house in leading street; rent £30; at valuation, about £200; to a man with limited capital this is an excellent chance. F. J. Brett, Valuer, 60 St. Stephen's Road, Leicester.

SOUTH WALES BORDER.—A small Mixed Ready-money Business to be sold at a sacrifice, proprietor's whole attention being required for large concern lately taken; good opening for beginner with small capital. Apply, S. W. B., care of Evans, Lescher & Webb, London, E.C.

EMPLOYERS WANTING ASSISTANTS.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

PARISH OF LIVERPOOL.

WANTED, for the Workhouse, Brownlow Hill, a Resident Dispenser; salary £30 per annum, with apartments and rations; applicants must be single men, not more than 40 years of age, and must be fully qualified pharmaceutical chemists.

Particulars as to the duties of the office may be obtained on application to the Governor of the Workhouse.

Applications, stating age and previous experience, to be sent, together with testimonials, to the undersigned not later than Tuesday, 5th day of April next.

Parish Office, Brownlow Hill, H. J. HAGGER,
March 24, 1887. Vestry Clerk.

A QUALIFIED Assistant, to Manage a Branch shop; encouragement liberal to an active, pushing, and obliging Assistant. Apply, stating salary and references, to J. T. Hall, 15 Gardener's Crescent, Edinburgh.

D. R. SARGENT, Dorrell Place, Brixton Railway Station, London, requires an Assistant able to dispense and attend chemist's retail. Apply personally or by letter, with references and salary required.

WANTED, an Assistant accustomed to Light Mixed Retail; age about 23; indoors; moral character of primary importance; enclose carte (returnable), stating height, salary, and all particulars, Marson & Son, Stafford.

IMMEDIATELY.—A good Junior, capable of taking charge during absence of principal; preference given to one accustomed to a Mixed business. Apply, enclosing carte (to be returned), stating age, height, salary required, &c., to P. Smith & Co., Runcorn.

ASSISTANTS.—Wanted, for "Cutting" Drug Trades, by a rising firm, several qualified and unqualified; splendid opening for young men; must be rapid Dispensers and good Counter hands; liberal salaries to competent men; must be abstainers. Address, Z. O., Post Office, Edinburgh.

WANTED, a Junior Assistant or Improver, aged 18 or 20, for a general country trade: hours easy; time for reading. State salary required and usual particulars to T. W. Dean, Great Harwood, Blackburn.

WANTED, immediately, a good Junior, age not under 20, for a light Retail and Prescribing trade. Address, stating age, height, references, and salary required, enclosing carte, to W. Jacobs, 72 High Street, Guildford, Surrey.

ASSISTANTS WANTING SITUATIONS.

1s. for twelve words; 6d. for every six words beyond.

LOCUM TENENS; registered; good prescriber and worker; moderate terms. "Operarius," Brentwood, Essex.

MANAGER or Senior; 8 years' experience, London and Dublin; highest references; moderate salary. Brien, 22 Great Portland Street, London.

ASSISTANT; not qualified; willing to make himself useful; 8 years' experience; aged 27; like to try wholesale. A. B., 66 Henslowe Road, East Dulwich.

LOCUM TENENS (by week or month); aged 38; terms moderate; references. M. P. S., 50 Bold Street, Moss-side, Manchester.

AN AUSTRIAN Gentleman (doctor of chemistry and philosophy), who has had considerable experience as Manager of Commercial Laboratories (sugar, glucose, &c.), and has a thorough practical knowledge of other branches of chemistry, desires engagement in England or abroad. "Austria," care of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A JUNIOR, or Dispenser to Surgeon; 7 years' varied experience; aged 22½ years; height 5 ft. 8 in.; good references; outdoor preferred; disengaged April 5. "Radix," 8 Union Street, Merthyr.

MANAGER; Dispenser to Surgeon; married; permanency. "Minor," 18 Great Church Street, Wisbech.

JUNIOR; Dispensing business; passed Preliminary; 5 years' experience; excellent references; comfortable home. E. F. Ellis, Topsham, Devon.

JUNIOR; disengaged; good Dispensing and General Retail experience; good references; aged 22. Petter, 71 Great Portland Street, W.

JUNIOR or Improver (20th year); 5 years' experience, first-class business. E. Bridgen, care of S. E. Cowap, Midhurst.

ADVERTISER, 12 years' with well-known firm of Manufacturing Chemists, desires re-engagement as Office Manager, Bookkeeper, Cashier, or any position of trust; aged 32; disengaged shortly. "Potash," Stock's Library, Romford Road, Upton.

A ASSISTANT: Mixed Country Business. E. S., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A JUNIOR; can Extract and Stop Teeth; good references. G. L., 147A Fulham Road, Chelsea, S.W.

DISPENSER to Surgeon or Chemist; aged 23; outdoor; in or near London preferred. Collins, The Limes, Washbrook, Ipswich.

A ASSISTANT or Dispenser; aged 30; qualified. R., 45 Cadogan Place, S.W.

ASSISTANT, or Temporary; 30; disengaged; Minor; moderate salary. 97 Cromwell Road, Bristol.

A ASSISTANT (aged 24) in Mixed Country business; present situation 3 years; highest references. J. Whitmarsh, Westbury, Wilts.

ASSISTANT; Minor; abstainer; 7 years' experience; first-class references; aged 23. F. Idenden, Hastings.

APPRENTICESHIP.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

APPRENTICE.—W. Watts, Dispensing and Family Chemist (by examination), 3 Five Elms Terrace, Lower Clapton, has a vacancy for an Apprentice; a youth who has passed Preliminary preferred; premium moderate; comfortable home; time for study.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

TO CHEMISTS FITTING UP.—Magnificent Wall Case, with glass-cased mahogany lockers underneath (Maw's fig. A 86); handsome Window Enclosure; Counter and Dispensing Screen (Maw's fig. 56 and 70 A); Mahogany Shelving and Pilasters; Cupboards, &c. 47 Church Street, Camberwell. Particulars of H., 4 Stratford Road, Kensington.

"NOTES ON DISPENSING," for Pharmaceutical Students, by George Stirling, consisting of hints on the manipulation of Mixtures, Pills, Emulsions, Suppositories, &c. Special notes on difficult pills and excipients, alphabetically arranged. Interleaved with blank paper for M.S. notes. **Post free 13 stamps.**—"DOSES OF NEW B.P." Compactly arranged for vest pocket. Easily mastered, convenient for reference. **Post free 6 stamps,** from John Gower, Publisher, 47 Sigdon Road, Hackney, London.

FOR DISPOSAL:—

265 lbs. Violet Oil, No. 12, in 25-lb. Tins, at 1s. 8d. per lb.	
100 " Rose " " "	1s. 6d. "
50 " Jasmin " " "	1s. 6d. "
50 " Orange " " "	1s. 6d. "
50 " Tuberose, " " "	1s. 6d. "

All carriage free. Apply, N. G. A., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A VALUABLE SPECIAL AGENCY.

DR. BIRLEY'S PREPARATIONS.—Large and Ready Sales. —48 page Pamphlets, gold covers, show-cards, &c., free; write to-day for samples. Gordon Murray & Co., 17 Castle Street, Holborn, London. Sole agents for Great Britain and India. "Baby's Blessing" and "Anti-Catarrh" may also be had.

STUDENTS' AIDS TO EXAMINATION.

PRELIMINARY.—Arithmetic and Metric System, 1s. How to Write an Essay, 3d. Cæsar Simplified, 1s. Knotty Points in Latin Grammar, 1s. 6d. **MINOR.**—Equations Simplified, 1s. Illegible Autographic Prescriptions, 1s. Notes on Dispensing, 1s. Prescriptions given at the Minor, 6d. "Chemist," care of Mr. J. Edwards, Wye, Kent.

AGENTS wanted for "Dr. Birley's Anti-Catarrh" and "Baby's Blessing"; exceptionally favourable terms to special agents. Write to-day for particulars to E. Birley & Co., 1 Cecil Street, Strand, London, W.C.

PRELIMINARY AND MINOR.

ALL STUDENTS who are preparing should send for particulars of a method of study which will enable them to pass with ease. Enclose stamped envelope to Mr. J. Tully (Hills Prizeman), Chemist, Hastings. Established 1872. References to past and present Pupils. 32 Pupils passed the last Examinations.

CHEMISTS AND DENTISTRY.

INSTRUCTION and Lessons in Surgical and Mechanical Dentistry given; also arrangements to mutual advantage made with Chemists for qualified gentlemen to attend patients by appointment; special terms. Apply, Messrs. Ritchie, Son & Hambridge, Dentists, 2 Hanover Square, London, W.

Estab. 1875. **OTTO WOLTERS,** Estab. 1875.
MANUFACTURER OF

ANALYTICAL, VACUUM, AND BULLION BALANCES.

Wolters' Improved Short-Beamed Analytical Balance,
A SPECIALITY. Assay and other Weights of every Description Made to Order.
Balances for Exportation.

55 Up, Marylebone Street, Portland Place, London, W.

SUFFOLK.

Will the anonymous correspondent kindly communicate direct with the

LINCOLN AND MIDLAND COUNTIES DRUG COMPANY

Respecting the
"BOGUS" BLOOD MIXTURE he says is being sold in this county. The matter will be treated as of a strictly confidential nature. F. Brown, Secretary, Park Street, Lincoln.

A Boon to Ladies from the Palace to the Cottage.

IODIZED DIAPHINES! IODIZED DIAPHINES!!

The NEW MEDICATED SPECIALITY for Ladies, One Shilling per dozen. Far Superior, Healthier, and Cheaper than the old-fashioned diaper towel, wood wool, tow, or any article yet introduced. Antiseptic, absorbent, and delicately perfumed. Patented throughout the World, price 1s., 1. 6d., 2s. per dozen. Can also be had in half-dozen packets of all Chemists, Ladies' Outfitters, and Drapers throughout the World.

Wholesale only of BELLINGHAM BROS., Patentees and Manufacturers, ADELPHI, LONDON. Large Discount to the Trade.

INSECT POWDER.

We have to spare a few 1-cwt. kegs GENUINE DALMATIAN INSECT POWDER, guaranteed ground from closed flowers only, and would sell same at less than market value.

Sample and Price on application.

W. KEMP & SON, HORNCASTLE.

N.B.—A Fine Lot NEW CALIFORNIA HONEY to hand, Clear and Set, Splendid Quality.

TELEGRAPHIC ADDRESS: "Chemicus London."

TELEPHONE No. 1852.

THE CHEMIST & DRUGGIST.

JOURNAL OF THE TRADE. WEEKLY.

PUBLISHED EVERY SATURDAY, AT THE OFFICES, 42 CANNON STREET, LONDON, E.C.

BRANCH OFFICES:

AUSTRALIA—Normanby Chambers, Melbourne.

UNITED STATES—41 Temple Court, New York.

PLAIN COVERED POTS

SUPERIOR QUALITY.

Per Dozen	$\frac{1}{2}$ oz.		$\frac{3}{4}$ oz.		1 oz.		$1\frac{1}{2}$ oz.		2 oz.		3 oz.		4 oz.	
White Ordinary - -	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
	1	4	1	5	1	6	1	8	2	0	2	4	2	10
With Screw Covers	1	10	1	11	2	0	2	2	2	6	3	0	3	6
Thin, for Dispensing -	1	5	1	6	1	8	1	10	2	2	2	8	3	2
Thick, for Perfumery -	1	4	1	5	1	6	1	8	2	0	2	4	3	2
White Ordinary, with Patent Keyhole notches for Elastic Bands, as shown below	1	6	1	7	1	8	1	10	2	2	2	6	3	0

**ELASTIC BANDS
FOR ABOVE.**

For 1 dr. to 1 oz., $\frac{1}{6}$,
For $1\frac{1}{2}$ oz. to 4 oz., $\frac{2}{3}$
per gross.



**ELASTIC BANDS
FOR ABOVE.**

For 1 dr. to 1 oz., $\frac{1}{6}$,
For $1\frac{1}{2}$ oz. to 4 oz., $\frac{2}{3}$
per gross.

S. MAW, SON & THOMPSON,

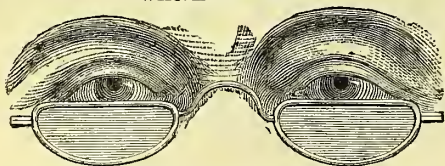
7 to 12 ALDERSGATE STREET, LONDON.

J. RAPHAEL & CO.,

CHEAPEST HOUSE IN THE TRADE FOR

**SPECTACLES, FOLDERS, FIELD,
OPERA, and MARINE GLASSES.**

WHOLESALE ONLY.



REPAIRS RETURNED SAME DAY.
13 OXFORD STREET, LONDON, W.
NEAR TOTTENHAM COURT ROAD.

The Original Arnicated Corn and Bunion Plasters.

ESTABLISHED
A.D.
1848.

Please
see that
YOUNG'S
goods are
supplied, as there
are many worthless
imitations.

HENRY YOUNG, Manufacturer, LONDON.

BEGINNER'S GUIDE TO PHOTOGRAPHY, 1/-

An Elementary Work of Instruction, free from abstruse technicalities,
by "A Fellow of the Chemical Society."

A. S. PLATTS, Esq., has added a Special Article and Tables on "EXPOSURE."

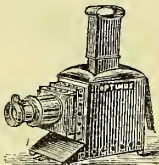
PERKEN, SON & RAYMENT

(Late LEJEUNE & PERKEN).

Established 1852. Manufacture for the Trade only. Catalogue free

MAGIC LANTERNS,

SLIDES, GAS BAGS, JETS, AND
ACCESSORIES.



LENSES, CAMERAS,

Photographic Apparatus for Enlarging, &c.

COMPLETE SETS of Apparatus for Amateurs.

Tripod and Studio Stands.

PATENTS.

(Optimus) Book Camera.

Made in the shape of a book. Unsurpassed for Detective work.

Durnford's) Between Lens-Drop Shutter.

(Stanbury's) Eclipse Ruby Tent. Non-actinic.

(3581) Roll Holder. For films on paper

(Redding's) Ruby Lamp. For the Dark Room.

Rayment's Tripod Top.

(Optimus) Dissolving Lantern.

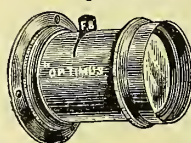
(Marshall's) Photographic Shutter.

(Rayment's) Extra Long Focus Camera.

Light—Portable—Rigid—Every Modern Adjustment—No Loose Parts.

101 HATTON GARDEN, LONDON, E.C.

Telegraphic Address—"OPTIMUS," Registered Trade Mark.



BURNISHERS.

Ruby Lamps.

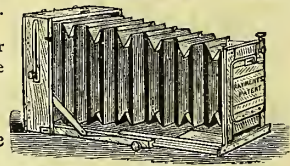
Head Rests.

Printing Frames.

Negative Boxes.

Trays.

Measures. Scales.



BARBER'S ORIGINAL CRIMSON INK FOR MARKING LINEN.

WHICH IS CHANGED BY HEAT TO A JET BLACK.

Put up for Retail Sale in 6d., 1s., 2s., 2s. 6d., and 5s. Bottles.

Also Barber's Concentrated Liquid COCHINEAL, for Colouring Jellies, Custards, &c.

Put up in 6d. and 1s. Bottles.

MANUFACTURED ONLY BY THE PROPRIETORS—

G. BARBER & CO., 6 Worcester Drive, Club Moor, LIVERPOOL

Can be obtained through any of the Wholesale Firms, or from the Proprietors,
G. BARBER & CO., Club Moor, Liverpool.



WALNUT POMADE.

A Triumph as a Hair Restorer.
An immediate effect.

Pleasant and Harmless.

Four Colours—Golden, Light Brown,
Dark Brown, and Black.

Pots— $\frac{3}{4}$ oz. (1/6) 12/ per doz.
1 $\frac{1}{2}$ oz. (2/6) 20/ per doz.

DEPILATORY POWDER

FOR REMOVING

SUPERFLUOUS HAIR

Speedily and effectually, without
injuring the Skin.

Retail, 1/; Wholesale, 8/ per doz

AGENTS:—Barclay; Edwards;
Maw; and Sanger.



SOLE PROPRIETOR—

EUGENE MORPHY, 70 South Audley St., Mayfair, LONDON.

ALL PROFIT! NO LOSS!!

By selling your own Proprietaries if prepared from BROOKS' reliable recipes.

"GLYCERINE CREAM."—Perfection of toilet requisites, most useful proprietary, quickly removes irritation and redness. Certain to sell and pays well.

"TIG SPECIFIC" (Physicians' prescription—concentrated).—Invariably relieves, has cured when Tonic and Tikhel failed. Can be honestly recommended.

"SANITARY LOTION."—For nits and all uncleanness in children's heads; warranted non-poisonous to all but insect life; one dressing sufficient. Perfectly safe. Large bottles, 1s.

"CANADIAN CONE."—Instantly relieves and rapidly cures Chilblains. Cleanly and safe.

"QUININE & IRON TONIC."—(Like Pepper's.) An elegant preparation, keeps well, pleasant, reliable action, profitable.

"HOP TONIC."—Superior in every respect to the American, both in appearance and medicinal worth; costs under 1s. lb.

"LIMES & GLYCERINE."—Elegant snow white, inseparable; very cheap. Recipes, 1s. 1d. each, 3 for 2s. 6d., with full directions.

Special offer.—Cut this out and above seven will be sent (as sample) post free for 5s. T. BROOKS, Chemist, LOUTH, Lincs.

FOR CLEANING PLATE

BRADLEY & BOURDAS'S ALBATUM or WHITE ROUGE,

For Cleaning Gold, Silver, and Plated Goods.

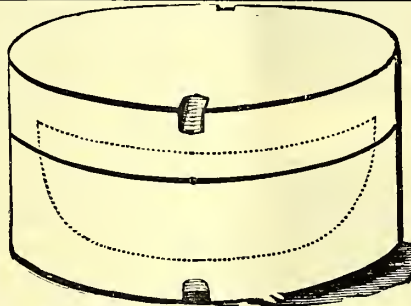
Since its introduction as a substitute for the ordinary Rouge, a quarter of a century ago, the sale has amazingly increased both at home and abroad. A trial is only needed to prove its superiority over other plate powders in use. Sold in Boxes at 1s. and 2s.; Tins, 6s. 6 Pont Street, Belgrave Square, and 48 Belgrave Road, London, S.W.

WILLIAM TOOGOOD'S SPECIALITIES.

WAREHOUSE AND SHOW ROOM, BURLINGTON BUILDINGS, HEDDON STREET, REGENT STREET, LONDON, W.

TOOGOOD'S IMPROVED PATENT EARTHENWARE COVERED POTS

*Are claimed to be the most perfect
and convenient yet offered to the Trade.*



They possess the following advantages:

1st. An India-rubber Band passed vertically over the pot is kept in its place by the notches, and effectually secures the lid; for travelling, this supplies a want greatly needed.

2nd. The Covers being made quite flat, labels can be affixed with ease, and without creasing.

3rd. The inside of the Pots being rounded or egg-shape, the contents can be entirely removed without waste.

4th. Great attention has been paid to insure accuracy of contents.

PRICES, per gross—

$\frac{1}{8}$ lb.	$\frac{1}{4}$ lb.	$\frac{1}{2}$ lb.	$\frac{3}{4}$ lb.	1 lb.	1½ lb.	2 lb.	3 lb.	4 lb.	6 lb.	8 oz.
18/-	18/-	18/-	20/-	22/-	24/-	27/-	34/-	42/-	54/-	66/-

TOOGOOD'S BURNT-IN POTS, FOR COLD CREAM, TOOTH PASTE, &c.

ARTISTIC DESIGNS AND NEW SHAPE JARS.

Samples and Prices forwarded upon application.

TOOGOOD'S GRADUATED MEASURES.

OF A VERY SUPERIOR QUALITY.
CONICAL OR CYLINDRICAL. STOUT AND ACCURATE.

3i.	3ij.	3ss.	3j.	3ij.	3ij.	3iv.	3vj.	3vij.	3x.	3xx.	3xl.	3lx.
6/6	8/6	6/-	7/-	8/-	10/-	11/6	15/-	16/-	18/-	25/-	36/-	72/-

STAMPED, 3/- PER DOZEN EXTRA.

TOOGOOD'S BOXWOOD-TOP CORK BOTTLES

Are all sent out washed and dried, ready
for immediate use.

TOOGOOD'S MEXICAN SQUARES.

The most Showy Bottle in the Trade for all Toilet Requisites, as Hair Washes, Face Lotions, and Tooth Preparations. *Samples and Prices upon application.*

TOOGOOD'S CORN-SOLVENT BOTTLE.

2-dram Actinic Green Round Shouldered Vial, with Boxwood Top, Cork, and Camel Hair Pencil, in White Enamel Slide Boxes, price 18/- per gross.

TOOGOOD'S POISON BOTTLES.

ACCURATE AND STRONG. SEXAGON SHAPE IN DARK BLUE, ACTINIC GREEN, OR FLINT GREEN COLOUR. FLAT SQUARE SHAPE, IN DARK BLUE COLOUR.

TOOGOOD'S DISPENSING BOTTLES, WITH NEW LIPS.

VERY SUPERIOR QUALITY, ACCURATE, and the Best that
can be manufactured. Prices upon application.

AUSTRALIAN AGENCY AND SAMPLE ROOM:

Mr. A. I. JOSEPH, Bridge Street, Sydney.

Telegraphic Address: "TOOGOOD LONDON."

Telephone No. 3834.

William Toogood's Price Current of Glass Bottles, Measures, Earthenware, Druggists' Sundries, &c., will be forwarded post free upon application.

SPECIAL ATTENTION GIVEN TO SHIPPING ORDERS.

EIGHT PRIZE MEDALS AWARDED.

**GOODALL'S
HOUSEHOLD SPECIALITIES.****Yorkshire Relish**

THE MOST DELICIOUS SAUCE IN THE WORLD.

In Bottles, 6d., 1s., and 2s. each.

CAUTION.—On each Yorkshire Relish Label is a Willow Pattern Plate and name. GOODALL, BACKHOUSE & CO. No other is genuine.

**Goodall's
Baking Powder**

THE BEST IN THE WORLD.

In 1d. Packets; 6d., 1s., 2s., and 5s. Tins.

**Goodall's
Quinine Wine**

In Bottles, 6d., 1s., and 2s. each.

**Goodall's
Custard Powder**

Sold in Boxes, 2d., 6d., and 1s. each.

**Goodall's
Blanc Mange Powder**

Flavours—Raspberry, Strawberry, Lemon, Almond, and Vanilla. Sold in Packets, 6d. and 1s. each.

**Goodall's
Egg Powder**

In 1d. Packets; 6d. and 1s. Tins.

SOLE MANUFACTURERS—

GOODALL, BACKHOUSE & CO.,
WHITE HORSE STREET, LEEDS.**PATENT MEDICINES
AND
DRUGGISTS' SUNDRIES.**

Monthly Price List of Patent Medicines, Druggists' Sundries, &c., will be sent post free on application to

GOODALL, BACKHOUSE & CO., LEEDS.

16

TO THE

**CHEMISTS & DRUGGISTS
OF
GREAT BRITAIN.**

TELEGRAPHIC ADDRESS:

COLEMAN,
GEORGE'S, NORWICH.

St. George's Middle St.,

NORWICH,

January 19th, 1887.

For some time past we have been in communication with the Inland Revenue, Somerset House, respecting the manufacture of our "Liebig's Extract of Meat and Malt Wine, with Quinine." An objection was raised to the employment of Port Wine as it contained Tannic Acid and might precipitate the Quinine, so we substituted Sherry, and have received the following important letter from the Board:—

"INLAND REVENUE,

"SOMERSET HOUSE, LONDON, W.C.,
"18th January, 1887.

"Gentlemen,—Your further letter of the 18th ultimo having been laid before the Board of Inland Revenue, I am to acquaint you in reply that, although Tannic Acid is not wholly absent from the Wine used in the preparation of the fresh sample of 'Liebig's Extract of Meat and Malt Wine, with Quinine,' forwarded to this Office by the Supervisor at Norwich on the 31st ultimo, the Wine is so far free from it as to satisfy the objection raised in Mr. Forsey's letter of the 17th ultimo. So long, therefore, as the article is prepared in accordance with the sample referred to, **THE BOARD WILL NOT REQUIRE A WINE LICENCE** to be taken out to authorise its sale. "I am, Gentlemen,

"Your obedient Servant,

"W. B. HEBERDEN,

"Messrs. Coleman & Co. "Assistant Secretary."

NO LICENCE IS THEREFORE REQUIRED for the sale of our "Liebig's Extract of Meat and Malt Wine, with Quinine." Your orders will oblige either direct or through the Wholesale Houses.

Yours most obediently,

COLEMAN & CO.

N.B.—The Wine is sold in Bottles, 2/9 and 4/6 each;
Trade prices on application.

MUSTARD.

FINCH, RICKMAN & CO.'S

Genuine Qualities

Are made from the finest mustard seeds only. Their compounds, as manufactured for upwards of a century, are guaranteed free from all ingredients imparting spurious heat, and are therefore equally suitable for both table and medical purposes.

TELEGRAPHIC ADDRESS—"UNPUFFED."

FINCH, RICKMAN & CO.,
6 Broken Wharf, Upper Thames St., London.

12½ gals. for £1, Cash free.
SPECIAL LINES FOR CASH BUYERS.

TYRER'S
WORCESTER SAUCE,
YORKSHIRE SAUCE,
"BOROUGH" KETCHUP.
BEST VALUE THAT MONEY CAN PURCHASE.

Prices and Samples sent free of all cost by
PETER TYRER, The "Borough" Ketchup & Sauce Maker,
LONDON, S.E.

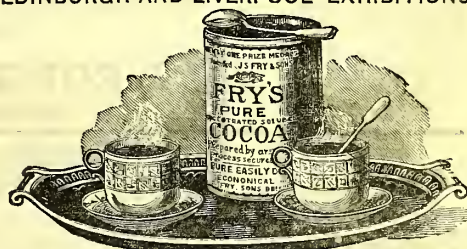
THIRTY-THREE PRIZE MEDALS AWARDED to the FIRM.
GOLD MEDALS,
EDINBURGH AND LIVERPOOL EXHIBITIONS.

FRY'S

Pure Concentrated

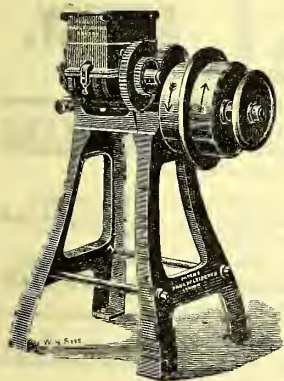
COCOA

Prepared by a new and special scientific process securing extreme solubility, and developing the finest flavour of the cocoa.



TRADE MARK.

J. S. FRY & SONS, BRISTOL, LONDON, & SYDNEY, N.S.W.



CHEMISTS' MACHINERY.

PILL MASS KNEADING MACHINES.
PILL MAKING MACHINES.
DRUG GRINDING MACHINES.
SIFTING MACHINES.

FULL PARTICULARS OF ABOVE ON APPLICATION TO

WERNER & PFLEIDERER, 86 Upper Ground St., **LONDON, S.E.**
Blackfriars Bridge,

CARTER'S DISINTEGRATORS

Will Pulverise, Granulate, or Shred almost any Mineral, Vegetable, or Animal Substance.

NEARLY 1,100 IN USE

IN ALL PARTS OF THE WORLD.

For Grinding Sugar, Bark, Linseed, Ginger, Pepper, Spices, Salt, &c., this Machine is invaluable. Made in 9 Sizes. Illustrated Catalogue may be obtained on application.

Samples of ANY Material will be Ground free of charge.

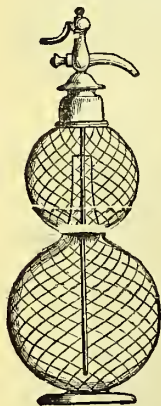
J. HARRISON CARTER, 82 MARK LANE, LONDON; and PARIS.

Telegraphic Address—Milling London.

"THE BEST NATURAL APERIENT."

Persistent attempts are made by interested parties to deceive the public by offering Natural Mineral Aperient Waters with marks, names, and designations very similar to those which are used by the **APOLLINARIS COMPANY, LIMITED**, for the **NATURAL MINERAL APERIENT WATERS** imported by them.

Under these circumstances the **APOLLINARIS COMPANY, LIMITED**, feel compelled to caution the public that the **HUNGARIAN BITTER WATER** sold by the **COMPANY** always bears the name of the **APOLLINARIS COMPANY, LIMITED**, on the Label.

DOWN AGAIN !!!**FEVRE'S
SELTZOGENES.**

Caned, each	2 PINT. 7/10	3 PINT. 9/2	5 PINT. 13/9	8 PINT. 23/5
Wired, each	2 PINT. 7/5	3 PINT. 8/9	5 PINT. 13/	8 PINT. 22/

£2 worth or more, 5 per cent. discount.

MAY, ROBERTS & CO., 9 CLERKENWELL ROAD, LONDON, E.C.

Telegraphic Address—"FEEDING BOTTLES LONDON."

**THE
CHEMISTS'
TEA
AGENCY.**

INCREASE YOUR INCOME.

We are now appointing Agents for our renowned Indian Teas, in 1/2, 1, and 1 lb. Packets. Gives no trouble; interferes not with ordinary business; and ensures a **COMFORTABLE INCOME.**

Applications to **BROOKE, BOND, & Co.,** Wholesale Tea Blenders to the Trade, 17, Piccadilly, Manchester.

Two Whifflings?

Impossible!

**THE
Most Admirable
TEA**

@ 2/- per lb
Sold only by

BROOKE, BOND & Co.
PICCADILLY & MARKET ST
MANCHESTER.

**THE
CHEMISTS'
TEA
AGENCY.**

GIBSON'S DELECTABLE JUJUBES, VOICE JUJUBES, & GLYCERINE PASTILLES,

Put up in 4-lb. Decorated Tins with Glass Lids, *Tins free*, are now being inquired for by buyers from all parts of the world.

They are not surpassed in quality by any maker, and give entire satisfaction.

MEDICATED AND HIGH-CLASS LOZENGES, OF EVERY KIND, sent out in 2-lb. or 4-lb. Bottles, Bottles Free; or in Tins, from 10-lb. upwards.
Lime Juice Tablets, Malt Tablets, Acid Drops, and Best Quality Boiled Sugars of every kind.
CHLORODYNE JUJUBES AND CHLORODYNE LOZENGES.

PENNY SUGAR WORM CAKES, suitable for either *children or adults*. Have an immense sale, keep in any climate, and please everybody. Manufactured by **ROBERT GIBSON, Carlton Works, Hulme, MANCHESTER, & 1 Australian Avenue, LONDON.**

Price Lists sent on application. Our Goods can be bought through any Wholesale or Export House in London.

BEST & SAFEST DENTIFRICE.**OSCAR SUTTON & CO., Preston, Lancashire.**

REGISTERED TRADE MARK

NOTICE.—We have had so many enquiries for **O.S. Tooth Blocks loose**, without boxes, that we have put them on the market in packets of one dozen, and they are designated No. 0 (please note this when ordering).

Our **O.S. Tooth Blocks**, in patent metal boxes, designated No. 1, are now supplied with sunk recess, into which Chemists can affix their own labels. Appropriate labels in dark leatherette, with Chemist's name, &c., in gilt lettering, can be supplied sufficient for 1 gross at 5s. (actual cost to us).

Chemists' names can be stamped on each Block free of charge on any quantity, the only expense being first cost of dies, at 6d. per letter ordered.

A sample, post free, for two stamps.

J. ATKINSON & CO.,
MANUFACTURING PERFUMERS, 5 Finsbury Square, LONDON,
PROPRIETORS OF THE "ZENITH PERFUMERY."

Manufacturers of High-Class Perfumery and Importers of the Finest Essential Oils only.

SAMPLES AND TERMS, WITH SPECIAL PRICES TO SHIPPERS AND LARGE BUYERS, ON APPLICATION.

THE CELEBRATED LONDON TEAS.

A SAFE AND PROFITABLE ADDITION TO A CHEMIST'S BUSINESS.

EVERY PACKAGE SIGNED



EVERY PACKAGE SIGNED

Tower Tea

Tower Tea

THE LONDON BROKEN TEA ... for Retail at 1/8 per pound.

THE LONDON 2/- TEA " " 2/0 "

THE LONDON 2/8 ASSAM TEA " " 2/8 "

THE BEST TEA—HANDSOMEST AND PERFECTLY PROTECTED PACKAGES.

A CERTAIN LARGE SALE—MOST LIBERAL ALLOWANCES TO AGENTS.

VOLUNTARY EVIDENCE OF LIVING AGENTS

Chemists—to each of whom direct reference is permitted.

NORTH.

ROTHERHAM, Jan. 2, 1886.

Your Teas are giving great satisfaction in this district. The London Broken Tea is of splendid value, and has won for itself a large consumption. It is only necessary to induce families to try these Teas to secure for them a permanent sale.

HUMPHREY DAVY.

CHESTERFIELD, Dec. 30, 1885.

I tried several Tea Agencies in succession, and was dissatisfied with the result, as I failed in each case to establish an increasing demand. Early in 1879 I was induced to take your Teas, and the following is, I believe, a correct statement of the quantities I sold during the first five years:—1879, 979 lbs.; 1880, 3,243 lbs.; 1881, 4,398 lbs.; 1882, 4,755 lbs.; 1883, 6,367 lbs. I have had a steadily increasing demand from the first, and am convinced that your Teas are better value for money than any wrapped Teas offered.

ALFRED LOWE.

YORK, Jan. 7, 1886.

Having been your Agent for some years, I think it only fair to say that the sale of your Teas and the satisfaction they have given to my numerous customers is highly gratifying; and, in my opinion, you place your Agents in a position that enables them to compete with anyone else in the Trade.

W. T. HEY.

SOUTH.

SALISBURY, Jan. 1, 1886.

Since I have had the Agency for your Teas, which is about five years, the sale has been steadily increasing. My customers speak in the highest terms of the Teas, and I find that when a trial has been made a regular customer is the result.

JOHN ROWE.

POWEY, CORNWALL,

Jan. 1, 1886.

I have always found a ready sale for your Teas, and they are much appreciated by all my customers. I sell double the quantity I did at first.

J. WELLINGTON.

HERNE HILL, S.E.

Jan. 6, 1886.

I accepted the Agency for this district about twelve months ago, since which time the sale has gone on steadily increasing. Some of my customers say that the London 2/- Tea is quite equal to what they have been procuring from their grocer at 2/6, 2/8, and 3/-.

JOHN MORTIBOY.

EAST.

GREAT YARMOUTH, Dec. 31, 1885.

It is now above four years' since I commenced to sell your "London Teas," and I must confess that when I ordered the first half chest I did not expect to sell it, but am now pleased to be able to say that it sold without difficulty, and created a demand that has ever since been increasing, and has far exceeded my most sanguine expectations.

W. SHEPPARD POLL.

GRIMSBY, Dec. 30, 1885.

I have been a retailer of packet teas thirty-two years, but was never able to give my customers such good value for their money before as I have been since I accepted your Agency, upwards of four years ago.

I have never had the slightest complaint respecting your Teas, but customers are constantly saying they are the best Teas to be had in the town.

ENOCH PALMER.

WOODBIDGE (Population 4,525).

Jan. 1, 1886.

Since my introducing your Teas in March, 1883, I have sold ten times more than before. The average sale for 1884 and 1885 has been 2,557 lbs. per annum. I am daily receiving gratifying testimonials of the superior quality, blend, and flavour of the "London Teas."

EDWARD J. EATON.

WEST.

BANGOR, December, 1885.

The sale of the Tower Teas with us, considering we do not keep sugar or groceries, has realised our most sanguine expectations, as our last order, over half a ton, will go very soon.

Before your Agency we had tried two others, and failed to sell 28 lbs. in a month.

HAMILTON & JONES.

PEMBROKE, Dec. 31, 1885.

I have much pleasure in bearing testimony to the superior quality of the Teas I have received from you during the five years I have been Agent. The increased sales year by year will be sufficient guarantee of the public appreciation of it. I consider it wonderful value, and of a uniform quality and flavour. I sell twelve chests for every one I used to do in the old style.

R. ORMOND.

BISHOP'S CASTLE, Jan. 2, 1886.

I have found the "London Teas" sell very well and please every class of customers. My sales in two years have increased between 600 and 700 per cent., and are still advancing—and, as you are aware, I now order from you every fortnight.

GEO. STRAWSON.

THE GREAT TOWER STREET TEA CO., LIM. LONDON.

CHEMISTS

Who are dissatisfied with the inferior quality of other
foreign

WILLOW BOXES

as imported, for obvious reasons, by competitors, are particularly requested to specify in their orders to Wholesale Houses that they require the superior

WHEEL  BRAND,

and that they will not take another make.

I guarantee that all my Boxes are made of Best WHITE Wood, the tops and bottoms well cemented in with a special paste, so that they stand changes of temperature without coming to pieces. This special advantage makes these boxes suitable for

EXPORT

to the Colonies and all parts of the world.

My Boxes can be obtained, with very few exceptions, through all respectable Wholesale Houses in town and country; but should Chemists experience any difficulty in being supplied with my brand I shall be glad to hear from them direct.

LARGE STOCK ALWAYS KEPT IN LONDON.

PAUL METZ, 10 Jewin St., LONDON, E.C.

Telephone Number,

1852.

Advertisers' & Buyers' Reference List,

AND INDEX TO ADVERTISEMENTS.

TELEGRAPHIC ADDRESS—

CHEMICUS

LONDON.

ADVERTISEMENTS APPEARING IN THIS ISSUE OF "THE CHEMIST AND DRUGGIST."

NOTE.—The Folios shown in this Index are those at the FOOT of the Page, and NOT at the Top. This arrangement is necessary in order to meet the requirements of the Post Office.

ALLEN & HANBURY'S Wholesale Druggists,
Cod Liver Oil, Jujubes and Pastilles, Lozenges,
&c., &c. COVER 52
AL MENTHOL CONES (SHIRLEY, A. W.) 50
ANTOINE FILLS 52
APOLLINARIS CO. Friedrichshall, Hunyadi Janos 15
Apollinaris Water Cover
APOLLINARIS CO. (LIM.) TEXT 386
ASSISTANTS WANTED 50
ATRINSON, J., & CO. Coloured Supplement 13
ATRINSON & BARKER, Infants' Preservative 45
ATPINALL, ASPINALL & CO. Enamel 48
AYRTON & SAUNDERS English-made Willow Boxes 46

BAILEY, W. H., & SON Abdominal Belts 27
BANNER, E. R. New American Oil of Peppermint 40
BARBER, G., & CO. Crinoline Marking Ink 11
BARCLAY & SONS Mrs. Johnson's Soothing Syrup 14
BAUMGARTNER & CO. La Brillantine 53
BECK, ALBERT N. Beck's Hop Bitters 3
BEECHAM, T. Beecham's Pills 42
BERNSTEIN, J. VOIGT Chemicals 35
BEVLEY & DRAPER, TIM Chemicals 35
BRILEY, DR. Agents Wanted Coloured Supplement
BLYTON, T. BAGE, & CO. Medicated Lozenges 30
BOEHM, GUSTAV Soaps and Perfumery 4
BOURNE, JOHNSON & LATIMER Feeding Bottles 53
BRADLEY & BOURDAS White Rouge 14
BRAND & CO. Specialties for Invalids 9
BRATBY & HINCHLIFE Soda Water Plant, &c. 24
BRITISH COLLEGE OF HEALTH 41

BROMLEY & CO. Woodhall Spa TEXT 386
BROOK, BOND & CO. Pens 18
BROOKS, PEEL & CO. Collapsible Tubes, Sprinklers, &c. 47
BROOKS, T. Formulae 14
BURGESS, E. Lion Ointment and Pills 42
BULLEY, W. H. Chlorodyne 52
BURGESS, WILLOWS & FRANCIS Wholesale Druggists 39
BURGOYNE, BURRIDGES CO. Wholesale & Export Druggists 36
BURROUGHS, WELLCOME & CO. Lamolin 31
Butyrate and Tablets of Strophanthin 25, 29
BUSINESSES FOR DISPOSAL Special Supp.

CADBURY BROS. Cocoa Essence COVER
CARDIGAN REVIVER 50
CARTER, J. HARRISON Disinfectants 17
CHESEBROUGH MANUFACTURING CO. Caution 30
CLARK, S., & CO. Syphon Gas Heating Stoves 50
COLEMAN & CO. Liebig's Extract of Meat and Malt Wine 16
COLWELL, H. M. Trus-ets 27
CONDY & MITCHELL (LIM.) Condy's Powder TEXT 386
CROUCH, F. B. Daniana Waters, &c. 4
CROWN PERFUMERY CO. Finest English Perfumery 41

DAVENPORT, J. T. Chlorodyne (Dr. J. Collis Browne's) 43
DAY & SONS Horne and Carter Medicals 35
DENOUAL, JULES Capsules 33
DE PASS & CO. Petrolina 55
DUNCAN, FLOCKHART & CO. Chloroform—Cascara Capsules 35
DUNN & CO. Orange Wine 35
DURRANT, GEO., & CO. Orange Wine 35
DRYSDALE, J. W., & CO. Dry Extract of Malt 34

EDGELL BROS. Rectified Pure Spirit 52
EISNER & MENDELSON Chemicals and Patent Medicines 31
ELLIMAN, SONS & CO. Embrocation TEXT 385
EVANS, SONS & CO. Sacars Specialties, Oil, Rectified (Tasteless), Capsules, Fluid Extract 32, 33
EVANS, LESCHER & WEBB, London 32, 33
EVANS, SONS & MASON, Montreal 32, 33
EWEN, J., & SONS Clarified Lard & Toilet Soaps 50
EXCHANGE COLUMN Special Supplement

FINCH, RICKMAN & CO. Mustard 17
FOSTER, F., & CO. Licensed Valuer 53
FOUGERA, F., & CO. Importers and Agents 51
FOULKES, W. J. Putke's Cement 51
FREEMAN, R. J. Chlorodyne 45
FRY, J. S., & SONS Cocoa 17
GASKELL, DEACON & CO. Bicarb. of Soda 37
GIBSON, R. Lozenges, Sugar, &c. 15
GOODALL, BACKHOUSE & CO. Yorkshire Relish, &c. 16
GOODALL, H. A., & CO. Brush and Combs GREAT TOWER STREET TEA COMPANY Celebrated London Teas 49
GRINDLEY & CO. Petroleum Jelly 52
GRUNER, CARL German Homoeopathic Tinctures, &c. 32

HASSALL & CO. Phospho-Citric Acid 24
HAYNES, G., & CO. Absorbent Wool HAV. W. Soluble Essences, Hop Ale Essence 23
HEARN, E. A., & CO. Bottles 12
HERTZ & COLLINGWOOD Hagen's Cod Liver Oil 45
HEWLETT, C. J., & SON Whole Ale Druggists 36
HOCKIN, WILSON & CO. Menthol Cones 23
HOOPER, B., & CO. Flexible Capsules and Potassium Pills 38
HORMUSJEE RUTTONJEE & CO. Export Druggists 52
HUNYADI JANOS Caution 15

INGRAM & ROYLE Esculap Bitter Water COVER
INGRAM & SON Enemas 54
ISAACS & CO. Bottles 12
JAMESON & CO. Harness Polish 50
JEWSBURY & BROWN Sparkling Table Waters 24
JOHNSON, J. H., & S. Oil of Mustard Seed 51
JONES, DR. Dental Surgeon 53
JONES & MASON Methylated Spirits 51

KEENE & ASHWEEL Homoeopathic Medicines 56
KILNER BROS. Bottles 12
KUDN, B. Papain Finkler 35
LASCELLES-SCOTT, W. Special Notice TEXT 386
LEATH & ROSS Homoeopathic Medicines 31
LEO'S COMPRESS-ED TABLETS 34
LEVERMORE, AUG., & CO. Pure Precipitated Chalk 52
LIVERPOOL SCHOOL OF PHARMACY 10
LOFODEN COD LIVER OIL CO. "North Star" 32
LONDON HOMOEOPATHIC HOSPITAL AND MEDICAL SCHOOL 10
LONGMANS, GREEN & CO. Thomson's "Conspicuous" 10
LOWE, C. Liver Mixture 35
LYNCH & CO. Enemas COVER

MACNAIR, J. D., & CO. Methylated Spirit 52
MACNAGHTEN, F. J. Agency 32
MANN, C. A., & CO. Perfumery 7
MARKS, A. A. Artificial Limbs 12
MASON, H. C. Nux Eau de Cologne 6
MAUD, W. R. Self-acting Meas. and Funnel, Worm Cakes, &c. 40
MAW, S., SON & THOMPSON Plain Covered Pots 13

MAY & BAKER Mercurials, Ethers, &c. COVER
MAYHEW, E. Foreign Agent 41
MAY, ROBERTS & CO. Seltogenes 18
MEINERZHIAGEN, E. Drugs, Gums, &c. 52
MEYER, THEODORE & CO. Aniline, Wool Fat 44
METZ, PAUL Pine and Willow Boxes 20
MEYER & HENCKEL Butter Colouring 52
MISCELLANEOUS ADVERTISEMENTS Special Supplement

MITRE COUGH LOZENGES TEXT 386
MORPHY, E. Walnut Pomade 14
MORRIS & CALLARD Acetic Acid 33
MUNDAY, J. "Injection Day" 78
MURRAY, SIR JAS. Fluid Magnesia, &c. 33

NESTLE, H. Food for Infants 9
NEWBERRY & SONS Wormer's Pills 2
NEW MILITARY BLACKING CO. Harness Composition 51
ORRIDGE & CO. Tubers Special Supplement
OSBORNE, BAUER & CHEESEMAN Perfumery 5
PATEY & CO. Manufacturing Perfumers 4
PEARSON, C. F., & CO. Italian Import Druggists 52

PEEK & VESLOR Wholesale Export Botanic Druggists 41
PERKEN, SON & RAYMENT Photographic Materials, &c. 11
PHILLIPS & CO. (LIM.) Foreign Merchants 52
PHILLIPS, G., & CO. Pure Spirit of Wine 29
POLLARD, A. W. Rubber Stamp 10
POTTS, H., & CO. Dr. Luck's Malt Extract, Meat Solution, Shop Bottles and Jars, Notice of Removal 31
POWELL & BARSTOW Elastic Gum Bandages 53

RAIMES & CO. Composition Essence 35
RAIT, GEO. L. Analytical Chemist 53
RAPHAEL & CO. Spectacles 14
ROBERTS & CO. Foreign Chemists 51
ROBINSON, B. Concentrated Waters 55
SANITAS COMPANY (LIM.) Disinfectant, TEXT 386
SAVARS Capsules and Cigarettes 34
SCHUTZE & CO. Druggists Sundries 27
SCHEPPE'S Table Waters, &c. TEXT 384
SEDDON, J. T. Oil of Almonds and Importers 50
SELLERS, J. Carmine Par. 52
SHIRLEY, A. W. Al Menthol Cones 50
SILICATED CARBON FILTER CO. 8
SILK, ECKLOCK, H. Printing 10
SLACK, BROWNLOW Liver Pills 41
SMITH, W. F. Disinfection Pills 41
SPRATTS' PATENT MEAT "FIBRINE" 51
STEPHENSON & TRAVIS Syphon 52
SUTTON, FRANCIS & CO. Drachms 53
SUTTON, O. OS Tooth Block 18

TODD, A. M. Crystal Oil of Peppermint 52
TOOGOOD, W. Glass Bottle Manufacturer 15
TRADE MARK PROTECTION ASSOCIATION 10
TULLY, J. Educational, Coloured Supplement
TYPER & KING Pure Acids and Hypophosphates 52
TYPER, P. Ketchup, Sauces, &c. 17
VACCINE ASSOCIATION Pure Lymph 33
WERNER & FLEIDERER Chemists' Machinery 17
WINKELMANN, J. H., & CO. Liquid Glue (Procter's) 44
WOLTERS, O. Balances, Coloured Supplement
WOOLLEY, SONS & CO. Manufacturing Pharmaceutical Chemists 39
WYLEYS & CO. Coated Pills, Pharmaceuticals, Wholesale Druggists 23
YOUNG, HENRY Corn and Bunion Plasters 11
ZIMMERMAN, A. & M. Pure Chemicals 41

CLASSIFIED LIST OF ALL ADVERTISERS

Whose Announcements appear in "THE CHEMIST AND DRUGGIST." Those whose Names do not appear above are published in one of the other issues of this month.

AERATED AND

MINERAL WTS

Esculap
Apollinaris (Hunyadi, Friedrichshall, and Apollinaris)
Barnett and Foster
Bromley and Co. (Woodhead Spa)
Carter, H. W., & Co. (Ginger Ale Essence)
Chemists' Aerated Waters Association
Durrant, Geo., & Co.
Ellis (Rathfriland)
Hassall and Co. (Citric Acid, Phospho)
Hay, W. (Hop Ale Essence)
Hunyadi Janos
Ingram and Royle (Mineral and Vichy, Sauerbrunnen, Carlsbad)
Jewsbury and Brown
Kinnond and Co.
Meadowcroft, W.
Mills and Co. (Bourne)
Schwepe and Co.
Sturmfels, F. E. ("Natural")
Taylor, T. and F. J.
Vichy Thermal
Williamson, W. H. (Wine Drink) [See GRINGER ALE.]

DITTO PLANT

[See SYPHONS AND ESSENCES.]
Barnett and Foster
Bratby and Hinchliffe
Bush, W. J., & Co. (Foam Producer, &c.)
Durafort, M.
Favarger, H.
Guert Freres
Meadowcroft, W.
Tyler, Hayward, and Co.

ACETIC ACID

Dunn and Co.
Hirst, Brooke and Hirst
Lindsey and Co.
Morris and Callard (Salts)

ALKALOIDS

Howards and Sons (Cinchona)
Smith, T. and H.

AMMONIA

May and Baker

ANALYSIS

Rait, G. L., F. C. S., &c.

AGENCIES

ABROAD

Cocking (Japan)
Drysdale, J. W., and Co.
Eisner and Mendelson (Philadelphia)
Evans, Sons and Mason (Canada)
Felton (Melbourne)
Fongers (New York)
Hormusjee Ruttonjee (Bombay)
Kempthorne (New Zealand)
MacNaughten (New York)
Mayhew, E. (Wine, Australia)
Phillips and Co. (Bombay)
Prosser, E., and Co. (Sdney)
Roberts (Paris, &c.)
Rocke (Melbourne)
Sharland & Co. (Auckland, N.Z.)
Shirreffs and Co. (Allahabad)
Stallman and Fulton
Symes and Co. (Simla)

APPARATUS

Bracher & Co. (Automatic distilling)
Knowles, J. (Balances)
Maud, W. R.
May, Roberts (Water-bath)
Orme (Scientific)

Perken, Son and Rayment

(Scientific)
Rothermel, Paul (Vinegar)
Wolters, Otto (Balances)

BATH GLOVES

G. Pattinson

BEESWAX & HONEY

Bowdler and Co.
Kemp, W., and Son
Woolley, Sons and Co.

BICARB. SODA

Gaskell, Deacon and Co.
Howards and Sons
May and Baker

BISMUTH PREP.

Hewlett and Sons
Howards and Sons
May and Baker
Sellers, J.

BOOKS

Baily, J.
Coffin, Dr.
Longmans, Green & Co.
Southall Bros. & Barclay

BLACKING

New Military Blacking Company
Jamieson and Co.

BOTANIC BEER

Newball and Mason

BOTTLE CAPS

Hunt, W. F., and Co.

BOTTLES

Barnett and Foster
Bratby and Hinchliffe
Broadhurst and Co. (Stoppers)
Brooks, Peel (Perfumers)
Glasgow Apothecaries' Co.
H. and E. A., and Co.
Isaacs and Co.
Kilner Bros.
Lang, Jones and Jules
Lynch and Co. (L. Br. 4)
Morrison, H., and Co.
Potts
Thompson, Millard and Co.
(Feeding)
Toogood

BOXES

Austin and Co. (Cardboard)
Ayrton and Saunders (Willow)
Irvin and Sellers
Metz, Paul (Pine and Willow)
Robinson and Sons (Pill and
Insect Powder)

BROMIDIA

Battle and Co.

BRUSHES

Dukas and Co.
Goodall, H. A., and Co.
("Stands")

**BUTTER COLOUR,
&c.**

Bush, W., and Son (Mari-
goldine)
Meyer and Henckel
Tomlinson and Flayward

CAMPHOR

Howards and Sons
Keene and Ashwell (Homo-
eopathic)
May and Baker
Murray, Sir James (Fluid)

CAPSULES

Betts and Co. (Metallic)
Denoual, J. (Medicinal)
Duncan, Flockhart and Co.
(Cascara Sagrada)
Hooper, B., and Co.
Metz ("Acme" Brand)

CARMINE

Bush, W. J., and Co.
Sellers

CASTOR OIL

Allen and Hanburys

CATALOGUE

Evans, Sons and Co. (Price
Current)
Maw, S., Son and Thompson
(Price Current)
Newbery and Sons

CEMENT

Foulkes
Kay (Coagulins)
Winklemann and Co. (Liquid
Glue)

CHALK PRECIP.

Dunn and Co.
Levermore, Aug. and Co.

CHEMICALS

Bernstein Vogt (Fine)
Bramwell, E., and Son
Bush, W., and Co.
Dunn and Co.
Fletcher, Fletcher & Stevenson
Gaskell, Deacon and Co. (Bi-
carbonate of Soda)
Howards and Sons (Pharma-
ceutical)
Lindsey, C. R., and Co.
May and Baker
Morris, Callard, and Co.
Petri Bros.
Sumner, R., and Co.
Smith, T., and H.
Tyke and King
Walker, Troke and Co.
Wink, J. A., and Co. (Fine)
Zimmermann, A. and M.

CHLORATE OF**POTASH**

(Compressed Tablets)
Burroughs, Wellcome and Co.
Leo's
Hooper, B., and Co.

CHLORODYNE

Bylton-Bage and Co. (Twen-
low's)
Davenport (Browne's)
Towle, A. P.

CHLOROFORM, &c.

Duncan, Flockhart
Macfarlan, J. F.
Petri Bros.
Smith, T. and H.
Wink, J. A., and Co., Ltd.
Zimmermann

CITRIC ACID

Hassells (Phospho)

COCAINE**HYDROCHLOR.**

Howards and Sons

COCOA & CHOCOLTE

Cadbury
Fry (Malted)
Savory and Moore (Cocoa and
Milk)

COD-LIVER OIL

Allen and Hanburys
Banner, E. R.
Burroughs, Wellcome
Burgoyne (Peppercine)
Hertz & Collingwood
Lofoden Cod Liver Oil Co.
Smith, T. J.
Southall Bros. and Barclay
Woolley, Sons and Co.

COFFEE

Symington and Co. (Coffee
Essence)

COLLAPSIBLE**TUBES**

Brooks, H., Peel and Co.

COMBS

Goodall, H. A., and Co

CMPRSSD MDCNS

Allen and Hanbury's
Burroughs, Wellcome and Co.
Hooper, B., and Co.
Leo's Tablets
Newbery and Sons

COMP. POWDER

Raines and Co. (Essence of)

CORN CURBS

Robinson, B.
Young's

COTTON WOOL

Haynes and Co.
Robinson and Sons (Absorbent)
Sanger, J., and Sons

DENTIFRICES

Jewsbury and Brown
Newber, and Sons
Hearn, E. A., and Co.
Thompson and Capper
Woods, W. (Areca Nut)

DENTISTRY

Jones, Dr. C. H. (Mechanical)

DISINFECTANTS

Condy and Mitchell
Government Sanitary Co.
National Chemical Co.
Sanitas
Southall (Germicide)
Steele & Co. (Chloride of Lime)

DOG MEDICINES

Spratts (Patent)

DRUGGISTS' SUN.

Ayrton and Saunders
Barclay and Sons
Bourne, Johnson and Latimer
Evans, Lescher and Webb
(Hawley's Counter Adjuncts)
Evans, Sons (Savars)
Lynch and Co.
Marriott and Co. ("Lily")
Baby Comforter)
Maud, W. R.
Maw, S., Son and Thompson
May, Roberts and Co.
Newbery, F., and Sons
Pattison, Geo.
Sanger and Sons
Savars
Schutze and Co.
Thompson, Millard
Toogood

DRUMS, CANS, &c.

Noakes and Co.

DUBBIN

Dales, J. T.,
Jamieson and Co.
New Military Blacking Co.

DYES

Ayrton and Saunders

EAU DE COLOGNE

Farina, J. M. (Gegenüber)
Mason, H. C. (Nim)

ELECTRIC APPAR

Darton, F., and Co.
Orme and Co.
Colhurst & Harding (Electric
Light Oil)

EMBROCATION

Elliman, Sons and Co.

ENEMAS

Ingram and Son
Lynch and Co.
Sanger and Son

ENGRAVERS

Barker, W., and Son

ESSENCES, FRUIT**AND SOLUBLE**

Brathby and Hinchliffe
Burgoyne, Burdidges and Co.
Bush, W. J., and Co.
Carter, H. W., and Co.
Hay's Soluble Lemon, &c.
May and Baker
Meadowcroft, W.
Thompson, H. A., and Son
Tyke and King
Vogt, G.
Woolley, Sons and Co.

ESSENTIAL OILS

Banner, E. R. (American
Peppermint)
Bernstein and Vogt
Bush, W. J. (Lemons, &c.)
Cocking (Japan Peppermint)
Felton (Eucalyptus)
Hay, W.
Lambert, S. and Co.
May and Baker
Meadowcroft, W.
Roeke, Tompsitt (Entsalyptus)
Sumner and Co.
Stallman and Fulton
Symes (Oil Lavender)
Vogt, G.
Warrick Brothers
Wright, Layman and Umney

ETHER

Duncan, Flockhart and Co.
(Chloric)
Howards and Son
May and Baker
Robbins

EXTRACT, MEAT

Brand and Co.
Burgoyne, Burdidges and Co.
(Dr. Koch's)
Coleman & Co.
Liebig Co.
Mason, Geo., and Co. (Lim.)
Pothe (Leube Rosenthal)

EXTRACTS, FLUID

Barber, G., and Co.
Burgoyne, Burdidges
Evans, Sons & Co.
Fletcher, Fletcher & Stevenson
Heaton, Squire and Francis
Potter and Clarke

FACE POWDERS

Chubb, J., and Co (Violet)
Foulkes

FEEDING BOTTS.

Bourne, Johnson and Latimer
Hearn, E. A., and Co. (late
Hearn, Hiddell and Co.)
Kilner Bros.
Lang, J. and J.
Maw, Son and Thompson
May Roberts and Co.
Savars
Thompson, Millard
Toogood, W.

FILTERING

Doulton and Co.
Dunlop, Mitchell and Co.
Maignen (Filter Rapide)
Mawson Swan, and Weddell
Slack & Brownlow
Silicated Crbn Filtr Co.

FOAMPRODUCERS

Bush, W. J. and Co.

FOOD, INFANTS**AND INVALIDS**

Allen and Hanburys
Benger's Pancreatized
Burroughs, Wellcome (Pepton-
ising)
Goodall, Backhouse and Co.
Heaton, Squire (Malted)
Lazenby, E., and Son
Mason, Geo., and Co. (Lim.)
Nestle, H.
Savory and Moore
Southall Bros. and Barclay
Sumner, R., and Co. (Angels')
Van Abbott (Diabetic)

FORMULE

Brooks, T.
Robinson, G.

FULLER'S EARTH

Chubb, J., and Co.
Mumford, G. S.

GINGER ALE

Harston and Co.
Hay, W.
Meadowcroft, W. (Essence of)
Mills, R. M.
Schweppe (Dry)
Sumner, R., and Co. (Essence)

GLYCERINE

Fink
Martindale, W. (Nitro-Glyce-
rine Tablets)
Price's Candle Co.

GRANULAR PREP.

Bates and Co.
Bishop, A.
Bush, W., and Co.
Evans, Sons

GUMS

Fink (Arabic, &c.)

GUTTAPERCHA

Duncan, Flockhart
Stevens, P. A. (White)

HAIR PREP.

Bates, T. W. (Frizzetta)
Capper, W. B. (Crimdione)
Cheesbrough Manf. Co.
Morphy, E. (Walnut Pomade)
Towle Toilet Cream (Thorn-
ton's)

HARNESSE COMPO.

Jamieson and Co.
New Military Blacking Co.

HERBALISTS

Butler, McCulloch and Co.
Coffin, A. J., and Co.
Depouzier, Henri
Newball & Mason (Ext. of Herbs)
Peck and Velsor
Potter and Clarke

HOMOEOPATHIC

Gould, E., and Son
(Cruzer, Carl (German)
Keene and Ashwell
Leath and Ross
Thompson and Capper

HOP ALE

Hay, W.

HOSPITALS

London Homoeopathic

HYPOPHOSPHITES

Dunn and Co.
Fellows
Fletcher, Fletcher & Stevenson
Tyke and King
Yeatman, F. J.

INHALERS

Burroughs, Wellcome and Co.
Evans, Sons and Co.
Maw, S., Son and Thompson
Sprone, The, Co., Lim.
Toogood, W.

INK [SEE MARKING.]

Antoine
Bewley and Draper
Duncan, Flockhart

INSECTICIDES

Sandford
Steiner and Co.
Sumner, R., and Co.
Vogt, G. (Dalmatian)

KETCHUP

Tyrer, P.

LANOLINE

Burroughs, Wellcome and Co.

LARD

Ewen, J.

LEECHES

Fitch and Nottingham
Potter and Clark

LICORICE

Maud (Compound)

LIME JUICE

Feltos and Sons (Spécialité)
Montserratt (see Evans)

LINSEED

Kemp, W., and Sons (Crushed)
Mumford

LINT

Gibbs, Cuxon and Co.
Liverpool Lint Co.
Maw, S., Son and Co. (Taylor's)
Newsome (Surgeons')
Robinson and Sons
Seabury and Johnson
Westhorp's (Marine)

LOOFABS.

May, Roberts and Co.
Maw, S., Son and Thompson

LOZENGES

Allen and Hanburys
Bylton, Bage & Co. (Medicated)
Craven, M. A., and Son
Gibson, R. (Manufacturer)
Lynch and Co.
Martindale, W. (Nitro-Glyce-
rine Tablets)
Mason, Geo., and Co. (Meat)
Mitre (Cough)
Randall and Son
Raines and Co. (Rose)
Warrick Brothers

MACHINERY

Brucher and Co.
Carter, J. H.
Foster, F. (Compressed Tablet
Sherwin
Werner and Pfeleiderer

MAGNESIA

Bates and Co. (Citrate)
Bishop, A.
Dunford (Fluid)
Henry, T. and H. (Calcined)
Murray, Sir James (Liquor)

MALT EXT., ETC.

Allen and Hanburys
Burroughs, Wellcome and Co.
("Kepler")
Dyde and Co. (Dry)
Pothe (Dr. Linck's)

MARKING INES

Barber, G., and Co. (Crimson)
Bond's (Crystal Palace)
Christian, J.
Hooper, W., and Co.
Murphy, J.

MEDICINE CHSTS

Day, Son and Hewitt (Veterin.)
Day and Sons

MENTHOL

A 1 Menthol Depot, J. G.
Shirley, Proprietor
Ayrton and Saunders (Cones)
Banner, E. R.
Boehm, J. (Charm)
Christy, J. & Co. (Inhaler)
Cocking and Co.
Dundas, Dick & J. Co.
Gibbs, Cuxon and Co.
Hockin Wilson and Co.
Metz, P. ("Acme")
Newbery and Son
Shirley
Spies Bros.
Symes and Co.
Todd, A. M. (Crystal Oil of
Peppermint)
Wand, S.

MERCURIALS

Bush, W., and Co.
Howards and Sons
May and Baker

METHYLATED**SPIRITS**

Burroughs, J.
Gibb, Smith and Co.
Harvey, J. & W., and Co.
Phillips, G., and Co.
Macnair, J. & D.

METHYLENE

Robbins, J., and Co.

MICROSCOPES

Darton, F., and Co.
Perken, Son and Rayment

MIXING**MACHINERY**

Bracher and Co.
Carter, J. H.
Fellows, Sons and Co.
Sherwin, G. E.
Werner and Pfeleiderer

MORPHIA

Macfarlan, H. and Co.
Smith, T. and H.
Wink, J. A., and Co.

MUSE

Symes and Co. (Thibet)

MUSTARD

Finch, Rickman
Johnson, J. H. and S. (Ess. Oil)

NIGHT LIGHTS,**FAIRY LAMPS, &c.**

Clarke, S.

OILS, PAINTS, &c.

Aspinall, Aspinall and Co.
(Enamel)
Binghamton Oil Refining Co.
Colthurst and Harding
Depouzier, Henri
Elvin Bros.
Seddon, J. and T.

OINTMENT BASES

Binghamton Oil Refining Co.
Burroughs, Wellcome & Co.
(Lanoline)
Chesbrough (Vaseline)
De Pass, E. A., & Co. (Petrolina)
Grindley (Petroleum Jelly)
Metcalf, Theo., & Co.

OXYGEN (Pure).

Bryn's Oxygen Co. (Lim.)

PAINTS [See OILS.]**PAPAIN FINKLER**

Kuhn, B.

PARALDEHYDE

Zimmermann, A. and M.

PATENT AGENTS

Horn and Son
Trade Marks Protection Ass.

PATENT MEDCNS

Atkinson (Infant Preserv)
Barclay and Sons (General)
Bates (Breast Sals)
Beck, A. N. (Beck's Hop Bitters)
Becham (Pills)
Bennette (Manna Cake)
British Colls. (Mason's)
Burgess, E. (Lion Ointment)
Crouch, F. B. (Wafers)
Edwards and Son
Evans, Lescher (Hawley's
Pills, &c.)
Fenning's (Powders)
Futcher's (Neuralgic Pills)
George and Welch (Liver)
Hirst, Brooke, and Hirst
Holloway (Pills and Oint.)
Hop Bitters Co.
Horsford (Acid Phosphate)
Johnson's "Soothing Syrup
(Barley)

Key Bros.

Lalor (Phosphodyne, &c.)
Lincoln (Clarke's Mix.)
Lowe, C. (Liver Mixture)
Osborne, Bauer and Cheeseman
Maud, W. and R. (Worm
Cakes)
May, Roberts and Co.
Munday, J. (Injection Day)
Newbery and Sons
Pocock and Co. (Foreign)
Raines (Composition Ess.)
Richards, J. M. American, &c.)
Roberts (Foreign)
Sanger (Widow Welch, &c.)
Savars
St. Dalmis (Bronchial, &c.)
Sumner R., and Co. (Angels'
Food)
Thompson, Millard and Co.
Towle, E. (Penny Royal)
White, A. J., Lim. (Kaskine)

PERFUMERY,**FANCY SOAPS.**

[See EAU DE COLOGNE.]
Atkinson, J., and Co.
Barclay and Sons
Bayley and Co.
Boehm Gustav (Variations)
Chesbrough Manufacturing Co.
Crown Perfumery Co.
De Pass and Co. (Beach
Blossom)
Durrant, Geo.
Ewen (Soaps)
Hirst, Brooke and Hirst
Mann, C. A., and Co.
Maw, Son and Thomson
Newbery and Sons
Osborne, Bauer and Cheeseman
Patey and Co.
Raines and Co. (Cachous)
Rowland and Son (Various)
Sainsbury, S. (Lav. Water)
Sanger and Son
Southall Bros. and Barclay
Warrick Brothers
West, T. (Okeill's Monks)
Woolley, Sons and Co. (Powder)
Wright, W. Y., and Co. (Soap
Coal Tar)

- PENS**
Gillott
- PEPSINE, &c.**
Burroughs, Wellcome
Fletcher, Fletcher and Steven-
son
Keene and Ashwell
Newbery (Ingluvin)
Savory and Moore (Peptonised
Milk)
Warner and Co. (Ingluvin)
Zimmermann
- PEROL. OF HYDR.**
Dunn and Co.
Robbins
- PHARM. PREPS.**
Allen and Hanbury
Barron, Squire and Co.
Battle and Co. (Bromidia)
Blyton, Bege, and Co.
Burgess, Willows, Francis
Burgoyne, Burbridges
Burroughs, Wellcome (Various)
Clay, Dod and Co.
Duncan, Flockhart
Evans, Sons and Co.
Fellows (Hypophosphites)
Fletcher (Lys. for Syrups)
Hearon, Squire and Francis
Hewlett and Sons
Hirst, Brooke and Hirst
Hooper, B., and Co.
Howards and Sons
Key Bros.
Keith (Conc. Tinctures)
Martindale (Nitroglycerine)
Sellers, J.
Southall Bros.
Sumner, R., & Co.
Symes and Co.
Walker, Troke
Wink, J. A., and Co.
Woolley, Sons
Wyleys (Various)
- PHOTOGRAPHIC**
May and Baker
Perken, Son and Rayment
- PILL MACHINES**
Pindar, J. V.
- PILLS (Coated, &c.)**
Allen and Hanburys (Schieff-
elins)
Beecham, Thomas
Hooper, Dr.
McKesson and Robbins (Ovoid-
capsuled)
Morrison
Newbery
Sanger, J., and Sons
Smith, W. F.
Towie (for Females)
Warner, W. R. (Coated)
Wyleys and Co.
- PITCH**
Peace, J. R., and Co.
- PLASTERS**
Mather, W.
St. Dulmas, A. De
Seabury and Johnson
The Pelig White Proprie-
tary Co.
- PODOPHYLLIN, &c.**
Keith, B. and Co.
Smith, T. and H.
- POLISHING**
Baumgartner La Brillantine)
Bradley, Bourdas (Albatum)
Cardigan Reviver
Jarmieson and Co.
New Military Blacking Co.,
Lim. (Metal)
Oakley, John, and Sons
- PORCELAIN GDS**
Lynch (Lock-lid Covered Pots)
Maw, S., Son and Thompson
Pothe, H., and Co.
Toogood (C.C. Pots, regist.)
- PRINTING**
Blake and Mc Kenzie
Bowers Bros.
Ford, Shapland and Co.
Silverlock, H.
Townsend, J. (Exeter)
- PYROGALLIC ACID.**
Bernstein & Vogt
- QUININE SALTS**
Drysedale J. W., and Co.
Howards and Sons
Zimmermann
- RENNET**
Benger's (Essence of)
Meyer and Henckel
- SALICINE**
Macfarlan and Co.
- SAUCES, PICKLES**
Goodall (Yorkshire Relish)
Lazenby (Harvey's)
- SCHOOLS OF PHARMACY, &c.**
Edinburgh Classes
Liverpool School
London Homoeopathic
Manchester College
South London School
The School of Pharmacy
Tully, J.
Westminster College
- SEALING WAX**
Waterston and Sons
- SEIDLITZ PWDRS.**
Chubb, J., and Co.
- SELTZOGENES**
Durafor
May, Roberts and Co.
- SHAVING**
Hovenden (Euxesis)
Lloyd, A. S. (Euxesis)
- SHEEP DIP**
Elvin Bros.
Grindley
- SHOP FITTERS**
Bowling and Govier
Bygrave, J. and W.
Howlett, S.
Lynch and Co.
Maw, Son and Thompson
Natali, E. (Show Cases)
Stefan, T., and Co.
Trebble, G., and Son
Yates, W. S.
- SOAP (SOFT, &c.)**
Chiswick Soap Co.
- SPECTACLES**
Darton, F., and Co.
Perken, Son and Rayment
Raphael and Co
- SPIRIT**
Burroughs (Pure & Methyl.)
Edgell, Bros. (Pure)
Gibbs, Smith and Co.
Harvey, J. W., and Co.
Jones and Mason (Methyl.)
Macnair, J. & D.
- SPONGE**
Cresswell Bros.
Cresswell, R., and Co.
Peterson, M.
Schutze and Co.
- STAMPS**
Lindner, M.
Pollard, A. W.
- STOPPERS**
Austin and Co. (Sprinklers)
Barnett & Foster (The Eclipse)
Brooks, Peel (Sprinklers)
Lazenby, E., and Son (Barrett's
Patent)
- STOVES**
Clarke, S., & Co. (Gas Heating)
- STARCH**
Critchley (Gloss)
The Patent Borax
- STROPHANTHUS**
Burroughs Wellcome and Co.
- SUGAR**
Gibson, R.
- SURGICAL**
Cocking, J. T. (Splints, &c.)
Ingram and Son
Marks, A. A. (Artificial Limbs)
Maw, Son and Thompson
Powell and Barstow (Elastic
Gum)
Schutze and Co.
Stephenson and Travis
Thompson, Millard and Co.
Woolley, Sons, and Co.
- SYPHONS**
Barnett and Foster
British Syphon Co.
Durafor
Lang, J. and J.
- SYRUPS**
Fletcher, Fletcher (Liquors)
- TEA**
Brook, Bond and Co.
Spinner and Co.
The Gt. Tower St. Tea Co.
Walker and Dalrymple
- THERMOMETERS**
Darton, F., and Co.
Goodall, H. A., and Co.
Perken, Son and Rayment
Schutze, F., & Co.
- TIN CANISTERS**
Noakes, B., and Co.
- TIN FOIL**
Betts and Co.
- TINCTURE PRESS.**
Pindar, J. W.
- TRADE MARKS**
Horn and Son
London Trade Marks Com-
mittee
Trade Mark Protection Assn
- TRUSSES**
Bailey, W. H., and Son
Colwell, H. M.
Haywood, J. H.
Lindsey and Sons
Lynch and Co.
Schutze and Co.
- URETHANE**
Howards, Sons and Co.
- VACCINE LYMPH**
Association for the supply
- VALUERS AND TRNSFR. AGNTS**
Collis, S.
Foster, F.
Orridge and Co.
- VARNISH**
Colthurst and Harding
Seddon, J., and T.
- VERMIN KILLERS**
Archer's "Rat Catchers"
Battley, J. R.
Sanford and Son
Steiner and Co.
- VETERINARY**
Chesebrough (Vaseline, &c.)
Corner, R. (Devonshire Oils)
Day and Son
Day, Son and Hewitt
James, Lieut.
James, R. J. (Blister)
Spratts (Dogs)
Sutton, F., and Co.
("Drenches")
Walker, Troke and Co.
- VINEGAR**
Grumble and Co. (Pure)
Rothermel (Making)
- WELLES & EPT DRUGGISTS**
Allen and Hanburys
Barron, Squire and Co.
Burgess, Willows
Burgoyne, Burbridges
Bush, W., Son and Co.
Butler, McCulloch and Co.
Clay, Dod and Co.
Evans, Leasher and Webb
Evans, Sons and Co.
Evans, Sons and Co. Mason
Hearon, Squire and Francis
Hewlett and Son
Hirst, Brooke and Hirst
Pearson, C. F., and Co.
(Foreign)
Pocock & Co. (Foreign)
Potter and Clarke (American
Raines and Co. (&c.)
Southall Bros. and Barclay
Sumner, R., and Co.
Thompson, Millard and Co.
Walker, Troke and Co.
Woolley, Jas. Sons and Co.
Wright, Layman and Umney
Wyleys and Co.
- WINES AND SPTS.**
Coleman and Co. (Wine)
Durrant, G. (Orange)
Hirst, Brooke and Hirst
Ingram and Royle (Orange)
Metcalf, Theo., and Co. (Coca
Wine)
Phillips, G. and Co. (Pure
Spirits of Wine)
Robinson, B. (Orange)

ELEGANT COUNTER PILL VASES, PRICES MATERIALLY REDUCED. SEE NEWBERY'S 1887 CATALOGUE.



Photographic Wood Cut of an assorted "Stand" of Counter Vases of Pharmacopoeia Pills or Granules (W. R. Warner & Co.), "Globe Stoppered" or Square Shouldered. These Vases are fitted with hand-painted, gold-bordered Labels, of which those named are usually in Stock. Height of Vase to top of Stopper, about 11 inches. DESIGN REGISTERED.

St. Columb, Cornwall,
Jan. 10th, 1885.

Messrs. F. NEWBERY & SONS,

GENTLEMEN,—I was much pleased with the Vases and Pills you sent me, and wish to remit. Will you kindly send me, etc.

Yours truly,

(Signed) E. GRIFFITH, Chemist.

JEWSBURY & BROWN'S

(MANCHESTER)

SPARKLING TABLE WATERS,

UNRIVALLED FOR PURITY AND QUALITY.

SODA WATER.
SELTZER WATER.
POTASH WATER.
LITHIA WATER.
SIMPLE
AERATED WATER.



LEMONADE.
GINGER ALE.
QUININE TONIC.
GINGER BEER.
HOREHOUND BEER.

EXTRACTS FROM ANALYTICAL REPORTS.

"The examination of the Waters which I have made has satisfied me that they have been prepared with the greatest care, and are of excellent quality."
FRANCIS JONES, F.R.S.E., F.C.S.
"On the whole, I have no hesitation in stating that your Aerated Waters are of the highest standard of purity which is practically attainable."

LOUIS SIBOLD, F.I.C., F.C.S.

"The Lemonade is, for flavour and general excellence, superior to any similar compound which I have examined, and contains no acid but Citric Acid."
"I took a sample of the water used in your manufactory, in the preparation of the Aerated Waters, and found it, as was the case with the completed compounds, entirely free from lead, copper, or any injurious matter whatever."

C. ESTCOURT, F.C.S., F.C.I.

J. & B.'s Syphons are mounted with PURE BLOCK TIN, thus ensuring absolute immunity from dangerous metallic contamination

113 MARKET STREET, and 44 DOWNING STREET, MANCHESTER.

145 MINORIES, LONDON E.C.
New York
Sydney
&c.

SODA WATER MACHINERY

AND ALL ACCESSORIES FOR THE TRADE

BRATBY & HINCHLIFFE

HEAD OFFICE
SANDFORD STREET, ANCOATS, MANCHESTER.

BOXES BOTTLES, MACHINERY,
ESSENCES
Catalogues, Circulars, Testimonials
Post Free

BY ROYAL LETTERS PATENT.

HASSALL & Co.'s PHOSPHO-CITRIC ACID

To Supersede Citric & Tartaric for Aerated Waters. It is recommended by the most eminent Physicians in Great Britain.

THE BEST HOUSES IN THE TRADE HAVE ALREADY ADOPTED IT.

It is thoroughly beneficial, and far better suited to the requirements of the Mineral Water Trade; it is free from lead and all other minerals and cheap acids; it is fully £8 per cwt. cheaper than Citric Acid, which mostly contains lead.

WE COMPETE ON QUALITY AND PRICE.

Testimonial from Mr. A. J. MASON, Chemist, of Bexley Heath.

"Having gone carefully into the matter I have no hesitation in saying that the patentees have in no way overstated the merits of their acid. There is no doubt in my mind that Phospho-citric Acid produces a much higher class beverage—giving, as they say, 'greater body'—the one thing needful in this class of goods; also a fruity character and mellowness I have never been able to secure with the ordinary acids. The aroma is also more pronounced. 'Purity' was my great incentive to giving the acid a trial, but I found 50s. or 60s. (citric at 1s. 7d. per lb.) per cwt. an economy not often secured under such favourable circumstances."

Why pay 2/6 per lb. for Citric, when a purer and more efficient Acid can be bought at about $\frac{1}{2}$ the price?

Beware of Imitations.

Write for Pamphlet and Testimonials.

3-oz. Sample will be sent on receipt of Postage (3 Sd am't); or 14 lbs. on approbation.

HASSALL & CO., Great Northern Goods Depot, King's Cross, LONDON.

Reuters Cables and Inland Telegrams—"REMPUJARON LONDON."

NEW YORK—F. J. MACNAUGHTAN, 20 CEDAR STREET.

TO AERATED WATER MANUFACTURERS. HAY'S SOLUBLE + ESSENCES

ARE GUARANTEED TO BE THE FINEST IN THE MARKET.

HONOURABLE MENTION:

International Food
Exhibition,
London, October, 1880.

GOLD MEDAL:
Society of Arts, Paris.
1883.

The difference between preparations made from Hay's Essences and those made from the numerous spurious imitations of them bearing the name of Soluble Essences is most marked, and no manufacturer using the latter can compete with one using Hay's Preparations, as is universally known.



GINGER CHAMPAGNE.

(Made from Hay's Essence.)

"An excellent and most agreeable beverage."

The Lancet.

"Mr. Hay has caught the fine aroma of ginger with remarkable success. It is equally sparkling but more refreshing than its rival, the Royal French Beverage."

The Chemist and Druggist.

GINGER ALE.

Made from Hay's Fortified Essence.)

"It pours out with as fine a head as any glass of ale, and possesses all the fine aromatic flavour of the pure ginger."

The Chemist and Druggist.

HAY'S SOLUBLE ESSENCE OF JAMAICA GINGER.

A Pure Essence of the Finest Ginger, perfectly free from Capsicum. Highly adapted for the manufacture of Transparent Aerated Waters, and for all Dietetic, Medicinal, and Pharmaceutical purposes. Trade Price, 5s. per lb.; 12 lbs. and upwards, 4s. 6d.

HAY'S COMPOUND FORTIFIED ESSENCE OF JAMAICA GINGER. FOR FIRST QUALITY GINGER ALE.

Specially prepared for the manufacture of the very Finest Ginger Ale made, is an addition of Vanilla, Lemon, and other flavours to the above. It imparts, with the exquisite Ginger Aroma of the above-mentioned Essence, a peculiarly fine fruity flavour, combined with the fullest amount of fragrance and pungency. Trade Price, 5s. 6d. per lb.; 12 lbs. and upwards, 5s. Quantity required, five fluid ozs. to each gallon of Syrup, making 105 10-oz. Bottles.

HAY'S GINGER ALE EXTRACT. FOR SECOND QUALITY GINGER ALE.

This Extract is strongly recommended for the manufacture of Ginger Ale, to which it imparts Pungency, Colouring, great Brilliancy, and an unusually Fine Ginger Flavour and Aroma, and makes a thoroughly good article. Trade Price, 4s. 6d. per lb.; 12 lbs. and upwards, 4s. Quantity required, three fluid ozs. to each gallon of Syrup, making 106 10-oz. Bottles.

HAY'S GINGER ALE ESSENCE. Highly Concentrated. FOR THIRD QUALITY GINGER ALE.

This Essence, which is a complete Bouquet of Flavours in a highly concentrated state, makes a Ginger Ale possessing an amount of aroma, flavour and quality that will be sure to command a large sale, and that is unsurpassed by the so-called finest Belfast Ginger Ale. Trade Price, 9s. per lb.; 12 lbs. and upwards, 8s. 6d. Quantity required, half a fluid oz. to each gallon of Syrup, making 106 10-oz. Bottles.

This Essence will be found most valuable to the general trade.

HAY'S GINGER CHAMPAGNE ESSENCE.

For the manufacture of Ginger Champagne. This Essence is a combination of the finest flavours, and imparts with the Ginger a most exquisite aroma, making a most delicious and refreshing approximation to Champagne. Trade Price, 8s. per lb.; 12 lbs. and upwards, 7s. 6d. Quantity required, ten fluid ozs. to each gallon of Syrup, making 106 10-oz. Bottles.

HAY'S SOLUBLE ESSENCE OF MESSINA LEMONS.

A magnificent Preparation, perfectly soluble, and makes the finest Lemonade obtainable. Trade Price, 8s. 6d. per lb.; 12 lbs. and upwards, 8s. "Added in the proportion of one fluid oz. to each gallon of Syrup, the Soluble Essence imparts the most delicious flavour of the Lemon."—*The Chemists' Journal.*

HAY'S LEMON FLAVOUR.

Perfectly soluble. Trade Price, 5s. per lb.; 12 lbs. and upwards, 4s. 6d. Quantity required, one and a half fluid oz. to each gallon of Syrup, making 106 10-oz. bottles.

HAY'S HOP ALE ESSENCE.

This Essence is made from the Choicest Hops grown, and is unrivalled for its peculiarly fine Hop flavour and aroma. Hop Ale made from this Essence has the full flavour of the finest Hops, and is a really appetising Bitter Beer. Trade price, 8s. 6d. per lb.; 12 lbs. and upwards, 8s. Quantity required, two fluid ozs. to each gallon of Syrup, making 106 10-oz. bottles.

W. HAY, MANUFACTURING CHEMIST, **HULL, ENGLAND.**
BEVERLEY ROAD,

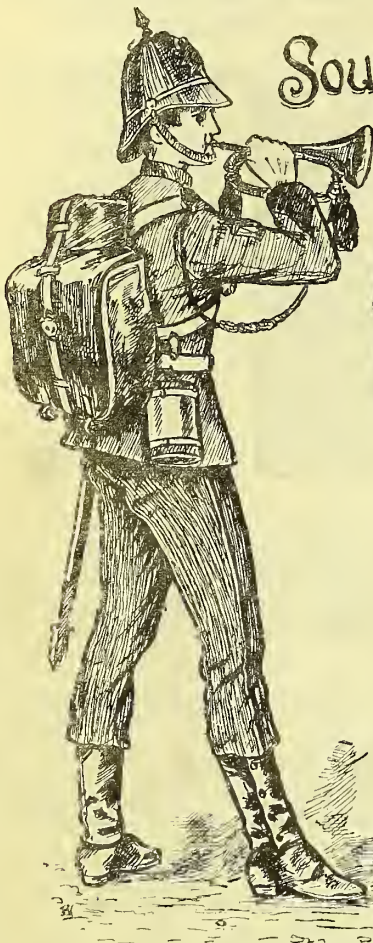
Indentors, to prevent disappointment, should specify that the Goods are to be of HAY'S MANUFACTURE.

W. HAY CAUTIONS THE TRADE against the use of those spurious so-called SOLUBLE ESSENCES which, besides having NO GINGER AROMA, are FLAVOURLESS, RANK, and DISAGREEABLE, and are little more than TINCTURES OF CAPSICUM.

"BEST AND CHEAPEST."

Should be handled by every Druggist, as they leave more Profit, and give more satisfaction than any Brand. Twenty-two Patterns to select from.

In ordering please quote Numbers to avoid mistakes. Cones supplied loose at lowest prices



Sound + the + praises
of + the
Acme Brand
(REGISTERED) N° 38537

MENTHOL
CONES

ONLY PURE JAPANESE MENTHOL USED



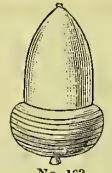
No. 200.



No. 202.



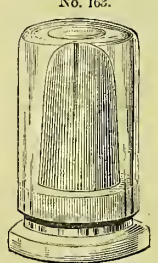
No. 163.



Nos. 203, 205 203.



Nos. 68 & 162.



No. 214.

LATEST NOVELTY.—No. 215 Menthol Smelling Bottle in Attractive Show Case, 4/.

No.	Per dozen	Size	No.	Per dozen	Size
88. Hard Wood Boxes, Pedestal Shape	2/6	1/	204. Vegetable Ivory, Castle Shape	5/10	1/
89. Nickel Screw Capped Bottles	4/6	1/	205. Boxwood Boxes, Cone Shape, each in box	3/3	6d.
90. " " " "	3/6	9d.	206. " " as No. 203, Large Size	4/8	1/
92. " " " "	2/6	6d.	207. " " Draughtsman Shape	4/11	1/
161. Boxwood Boxes, Acorn Shape	4/2	1/	208. Vegetable Ivory,		
162. Vegetable Ivory, Acorn Shape	3/11	1/	210. Boxwood Boxes, Acorns, Neck Plated Caps	5/4	1/
200. Boxwood Boxes, Pedestal " Screw Lids	3/0	6d.	211. Vegetable Ivory Boxes	5, 10	1/
201. " " Barrel " "	3/11	1/	212. Boxwood Boxes, Bullet Shape, reversible		
202. " " Bullet " "	3/11	1/	end	4/8	1/
203. " " Cone " "	3/11	1/	213. Menthol Charms for Watch Chains, &c.	2/8	6d.
			214. Glass Show Bottle, with Case on Stopper	6/6	1/

209.—Nickel Plated Pencil, with Menthol at end, 1/ size, 4/6 per doz.

A Sample Box containing one each of above, 6/; by post 7/.

In ordering through Merchants and the Wholesale Trade, from whom our preparations may be had at above prices, please state distinctly



Nos. 8, 90, and



No. 211.

5 per cent. Discount for
Cash with Order.

"ACME BRAND" AND HOCKIN'S.

MANUFACTURED BY

HOCKIN, WILSON & Co.

38 DUKE STREET, MANCHESTER SQUARE, LONDON, W.

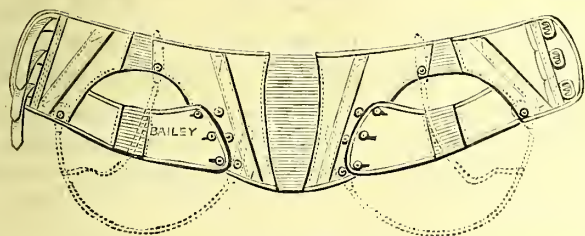
Special Quotations for
Large Quantities.

THE REASON WHY

BY ROYAL
LETTERS PATENT.

BAILEY'S PATENT ABDOMINAL BELTS

Have a **LARGE HOME, FOREIGN, AND COLONIAL SALE** is because they are the only Belts which do not result in disappointment. The difficulty of obtaining a proper fit, except at the hands of an experienced fitter, is well known. These Belts, however, are "**SELF-ADJUSTING**," "**CANNOT RUCK UP**," and adapt themselves so thoroughly that **A MISFIT IS IMPOSSIBLE**.—Vide "LANCET," "BRITISH MEDICAL JOURNAL," &c.



For Measurement: Circumference of Abdomen at the largest part and Hips.

No. 1.—FOR GENERAL SUPPORT (as fig.)

No. 2.—FOR PREGNANCY.

Capable of great expansion.

No. 3.—FOR PROLAPSUS UTERI.

With Improved Indiarubber Perineal Pad and Regulating Straps

No. 4.—FOR UMBILICAL HERNIA.

With Air Pad.

No. 5.—GENT'S RIDING BELT.

(Nos. 2 to 5 ARE MADE IN FOUR QUALITIES, AT PRICES TO SUIT ALL CLASSES).

THE DISCOUNTS TO SHIPPERS AND THE TRADE ARE THE BEST.

Full particulars post free to all parts of the World. Correspondence invited.

W. H. BAILEY & SON, 38 OXFORD ST., LONDON, W.

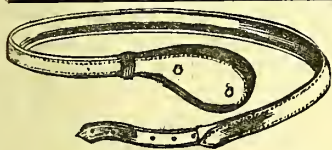


FIG. 1.

The Best and Cheapest Trusses of all kinds in the Wholesale and Export Market are manufactured by

TRUSSES.

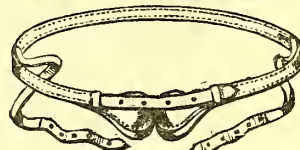


FIG. 2.

H. M. COLWELL.

ELASTIC STOCKINGS, SUSPENDERS, AND SURGICAL BANDAGES OF ALL KINDS.

WHOLESALE AND EXPORT.

THE LARGEST SHIPPERS IN THE TRADE.

Revised Price List Illustrated, with Samples, forwarded Post Free to any Address.

Estab. 1832.]

116 NEWINGTON CAUSEWAY, LONDON, S.E.

[Estab. 1832

F. SCHUTZE & CO.,

MANUFACTURERS AND IMPORTERS,

PATENTEES of the UNBREAKABLE Artificial Celluloid EYES, as supplied to St. Bartholomew's and the leading Hospitals.

A LARGE STOCK OF ARTIFICIAL

SPECIAL LINES IN—

ENEMAS—Ear, Nasal, and Vagina'. DOUCHES, &c. All kinds of SYRINGES, Pessaries, Ice Bags. MEDICAL BATTERIES, Medical and Perfume SPRAYS, Steam Sprays and INHALERS. Electro-plated, Indiarubber, and Vulcanite Surgical Instruments, Teats, Tubing, &c. Thermometers, Bandages, the Improved "F. S." SUSPENSORY, Catheters, Bougies, Guttapercha Tissue, Absorbent Cotton Wool. Pill and Powder BOXES. Fancy Sponge Bags and Bathing Caps, Macintosh Nursery Requisites. FRENCH AND AMERICAN Specialities, &c., &c.



GLASS EYES.

All Goods WARRANTED. Our Prices are the lowest. Write for PRICE LIST.

European Depot for the Philadelphia Truss Co.'s celebrated "Champion" and Hard Rubber

Trusses—

9 SOUTH ST., FINSBURY, LONDON, E.C.

KEPLER SOLUTION OF COD LIVER

STROPHANTHUS,

A CHARGE

THE CHARGE!

Leaderette from "The Chemist and Druggist," March 5, 1887.

STROPHANTHUS IN AMERICA.

THE new cardiac remedy has been used with considerable success by several physicians in the United States, and it would appear that, with a more liberal and cheaper supply of the drug, its use will be extended. The *Therapeutic Gazette*, in commenting upon this aspect of the subject, makes some stringent remarks on two English houses which are not named. It is said, "two enterprising English drug firms expect to become millionaires at the expense of the public through the sale of this drug. We learn that these firms claim to have 'cornered' the market in strophanthus, and have so advanced its price as to make at present, in view of the uncertainty of its action, any ordering of the new heart-tonic in physicians' prescriptions entirely unwarranted. The present market price of the tincture of strophanthus—and it is to be noted that no definite strength is announced—is \$1 per ounce. Now, even if we admit that this tincture is made from the clear seeds and in the proportion first recommended by Professor Fraser—i.e., 1 lb. of seeds to 8 pints of spirit [the United States pint of 16 fl. oz. is meant.—ED. C. & D.]—that would bring the price of the seeds to \$128 per pound. We further learn that the English firms which are thus attempting to fleece the general public are offering the clear seed at 160s. (\$40) per pound; and recollecting that the manufacturers of the tincture do not state that this tincture is made from the seeds alone, and that Dr. Fraser has more recently recommended a much more dilute tincture, it is evident that the profit made in this transaction must be simply enormous, provided the medical profession can be gulled into playing into the hands of such extortioners.

"It is highly probable that this drug may prove to be a valuable adjuvant to our other means of treating a weak heart; but neither we nor our patients are compelled to rely on it alone, and until the manufacturing druggists learn that the medical profession cannot be played as puppets to fill their pockets, *Strophanthus hispidus* should be let severely alone."

Our contemporary is not well informed. As to the action of strophanthus there is no uncertainty, Professor Fraser having clearly laid down when it may be used and when it may not. The calculations regarding the price of the drug, based on the strength of the tincture, are not far out, but the *Therapeutic Gazette* does not appreciate the difficulties which there have been before a supply of the drug could be obtained to meet a great demand, and it has always been the case that new and valuable drugs have fetched an enormous price when first introduced. The price of cocaine, when it was introduced, is a sufficient proof of that rule, and Calabar bean, as an African product, is, perhaps, more akin to strophanthus. It was at first very difficult to obtain, and consequently its price was high.

THE REPLY.

A Letter to "The Chemist and Druggist," March 19, 1887.

THE PROFIT ON TINCTURE OF STROPHANTHUS.

SIR,—As serious charges have been made against us in the *Therapeutic Gazette* of asking an excessive price for tincture of strophanthus, and as these were mentioned in THE CHEMIST AND DRUGGIST of March 5, we hope you will give us space to clear ourselves.

A short time ago we had occasion to expose (*Pharmaceutical Journal*, November 27, 1886, p. 444) a quasi-scientific effort on the part of the editor of the *Therapeutic Gazette* the trade journal of an American drug house—that purpose to demonstrate the worthlessness of a distillate of the ginkgo bark and twigs of the *Hamamelis Virginica*. In the article in question the experiments detailed were made with "pulverised dry root," which was macerated for ten days with the view of ascertaining how much volatile principle the fresh twigs contained! At the time we incidentally observed that this "drug house" had a fluid extract of "dried root" to sell, but no distillate of the fresh twigs; and furthermore, we inquired what would be thought of experiments instituted to determine the value of rose, laurel, elder-flower water (all made with fresh petals or leaves) the experiments were directed upon the pulverised dry root macerated for ten days. To this they were unable to reply. Their answer, however, appears to have assumed the form of an attack upon us for the commercial introduction of strophanthus.

Perchance not forgetting this exposure, and with long eyes fixed upon strophanthus, this trade journal of an American drug house descants after this manner: "The profit must 'simply be enormous, and the firms (who have cornered strophanthus) expect to become millionaires at the expense of the public through the sale of this drug . . . and have advanced its price as to make at present, in view of the uncertainty of its action (italics ours), any ordering of new heart tonic in physicians' prescriptions unwarranted. This attack is specially unfair, for, so far as the expense of strophanthus is concerned, we may say that up to the present time we have not yet made a net profit on it, and have reduced the price as fast as we were warranted in doing."

The original cost of the pods and seeds together—and shall be pleased to show our books and invoices in evidence—was quite 47. 10s. per lb., and we were able to get 4½ oz. seed out of each pound, so that the seeds cost 20s. per

KEPLER EXTRACT OF MALT, ZYMINE,

PURE TEREBENE, LANOLINE,

OIL IN EXTRACT OF MALT.

THE NEW HEART TONIC.

AND A REPLY.

For a pint of the tincture the following represents the cost, as at first prepared of 1 in 8 strength :—

	£	s.	d.
Strophanthus seed (2½ oz. at 20s. per oz.) ..	2	10	0
Ether, for extracting oil (10 oz.)		3	0
Spt. vin. rect. (1 pint)		2	6
Picking, cleaning, and grinding seeds, and other labour		1	6
Total cost of 1 pint	2	17	0
Cost of 1 oz. of tincture would therefore be ..		2	10
Glass stoppered bottles (two for each ounce) ..			5
Wrapping, label, filling, cleaning, &c. ..			2
Total cost of each ounce in ½-oz. bottles ..		3	5

Our selling price at first was 2s. per ½-oz. bottle, subject to our usual discount to the trade. The cost of distribution in single bottles was very considerable. The above figures, of course, do not take into account the cost of advertising, and the personal efforts and other expenses incidental to procuring and supplying a rare drug like this. The trouble and expense which we have sustained have been very great, and we are dependent upon future sales for any profits on the drug, despite the computations of the *Therapeutic Gazette*, which are as far off the mark as the experiments with the pulverised dry root of the hamamelis were. The difficulties at first experienced in procuring the drug were very great, but we endeavoured to distribute strophanthus among the profession and trade as fairly as possible, allowing only one bottle to any one customer; besides this, we distributed a large portion of our stock to hospitals free of charge.

From the phrase "in view of the uncertainty of its action" it would almost appear that the writer may not be fully aware that strophanthus is the African arrow-poison, and we should be pleased to forward a copy of the paper upon Strophanthus, read before the British Medical Association in Cardiff, by Professor Fraser, of the University of Edinburgh. The writer should know that Professor Fraser experimented with this drug for seventeen years, and that his conclusions have not been slurred before. In his paper are given sphygmographic tracings, clinical reports, &c., that have not only been pronounced by the highest therapeutists

convincing in themselves, but, so far as we know, have been verified by the experience of all who have used the drug. In view of the brilliant results obtained with strophanthus, one is constrained to inquire whether the editor of the *Therapeutic Gazette* has not, like Rip Van Winkle, been indulging in a rather protracted sleep. One might as well speak of the *uncertainty of the action* of aconitine or cocaine as to patronisingly talk of the uncertainty of the action of strophanthus. We would say to the editor of the *Gazette* that, in the words of the African, "This African arrow-poison is dreadfully certain."

But this trade journal of a drug house caps the climax when it says:—"Neither we nor our patients are compelled to rely on it alone, and until the manufacturing druggists learn that the medical profession cannot be played as puppets to fill their pockets strophanthus hispidus should be let severely alone." This reminds one of Colonel Seller's reasoning about his eye-water, for the fact is overlooked that everybody does not suffer with heart disease, and that a small bottle may last for a considerable time. Aside from this, it is difficult to conceive of anything more reprehensible than the doctrine that, because a certain firm may get a profit, the patient who is suffering with orthopnoea, anasarca, and other symptoms of a cardiac disease, should, if possible, be made to get along with something else. If this is not ruthlessly trifling with disease, what is?

But the animus is best shown by the assertion "that the manufacturers of the tincture do not state that this tincture is made from the seeds alone." If there is one thing we have laid stress on it is the preparing of a pure and uniform tincture of strophanthus, made from the seeds only (according to Professor Fraser's formulae), and we find it difficult to believe that anyone supposes for a moment we have made it from anything else.

In conclusion, we would say that the strophanthus tincture lately sold in New York was prepared from the original lot of the drug which we received. Less than a month ago we reduced the price of the tincture here from 3s. to 1s. 6d. per oz., for we manufactured it from seeds procured at a reduced price.

Yours faithfully,

BURROUGHS, WELLCOME & CO.

Snow Hill, London.

March 24, 1887.

Further arrivals of Strophanthus enable us to reduce the price of the Tincture to—

10s. per dozen half-ounce bottles.

15s. " one-ounce "

Subject to usual trade discount.

TRADE MARK.
"TABLETS AND TABLOIDS,"
HAZELINE.

STROPHANTHUS (Tincture & Tabloids).

CAUTION!

The word "**VASELINE**" is the Exclusive Property of the **CHESEBROUGH MANUFACTURING COMPANY**. It is registered as their **TRADE MARK** for their Emollient, Remedial, and other preparations of Petroleum, and cannot be employed with respect to any goods not manufactured by the Company.

ADDRESS—41 HOLBORN VIADUCT, LONDON, E.C.

LANOLINE PREPARATIONS.

Lanoline.

Lanoline is the fat natural to the hair and skin, and is absorbed by these at once. It is the best basis known for ointments, salves, &c. Of desirable consistence, it does not melt below body heat, and does not "run" like ordinary ointments. Being homogeneous, and devoid of hard crystalline bodies and free fatty acids, it is soothing and acceptable in the most irritable conditions of the skin. It is miscible with water and all medicinal oils, and is perfectly bland and soothing. 9/6 lb. Tins, 3/4 per lb. in 7-lb. Tins.

Lanoline Cold Cream.

This is emollient, protective, and healing. It supplies the skin with a "cream" natural to it, and is highly praised for abrasions, mucous patches, herpes, chapped hands, roughness and hardness, &c. 20/ per doz.

Lanoline Pomade.

Hair anointed with this presents no shiny, greasy gloss, and does not stain the hat or anything else that comes in contact with it, for Lanoline Pomade is absorbed at once. It soon makes the hair smooth, silken, and strong, and after employing it a little time the scalp becomes perfectly healthy and free from dandruff. 20/ per doz.

Lanoline Toilet Soap.

Ordinary soaps often cause pimples, blotches and sores on the face, and prevent eruptions already formed from healing. They remove the fat and dry the skin, so that it becomes hard, inelastic, and rough, and loses its natural colour.

Lanoline Toilet Soap is made with Lanoline. Lanoline being the natural fat of the skin, is acknowledged by dermatologists to be the very best preservative of this tissue, restoring its soft, pliable, and elastic nature and healthful gloss. The process of its manufacture precludes the possibility of adulteration, as with rosin, &c., and affords a most superior product.

These prices are subject to our usual discount.

SUPPLIED BY THE WHOLESALE TRADE.

BURROUGHS, WELLCOME & CO., Snow Hill Buildings, LONDON, E.C.

DRAPER'S INK (DICHROIC)

THE NEW BLACK INK, different from anything else ever produced.

Writing becomes a pleasure when this Ink is used. It has been adopted by the principal Banks, Public Offices, and Railway Companies throughout Ireland.

It writes almost instantly full black.
Does not corrode Steel Pens.
Dries rapidly on the Paper.
Is cleanly to use, and not liable to blot.

Flows easily from the Pen.

Blotting-paper may be applied at the moment of writing.

In Jars, 6d., 1s., and 2s. each.

Can be obtained, in London, through Messrs. BARCLAY and SONS, Farringdon Street; W. EDWARDS and SON, 157 Queen Victoria Street, E.C.; F. NEWBERRY and SON, Newgate Street; S. MAW, SON, and THOMPSON, Aldersgate Street; HAYDEN and Co., 10 Warwick Square, Paternoster Row; HOVENDEN and SONS, City Road; AYRTON and SAUNDERS, Duke Street, Liverpool; GOODALL, BACKHOUSE and Co., Leeds; JNO. HEYWOOD, John Dalton Street, Manchester; JAMES HEMINGTON, 6 Moor Street, Birmingham; HENRY HODDER, Broad Street, Bristol.

BEWLEY & DRAPER, Limited, DUBLIN.

See "CHEMIST AND DRUGGIST," December 15th, 1874.

T. BAGE BLYTON & CO.

(Successors to RICHARD TWEMLOW),

PHARMACEUTICAL CHEMISTS,

MANUFACTURERS OF

MEDICATED LOZENGES OF EVERY DESCRIPTION.

BOILED SWEETS of superior quality, for sale by **CHEMISTS.**

PRIVATE AND PROPRIETARY FORMULA CAREFULLY COMPOUNDED.

PRICES AND PRICE LISTS ON APPLICATION.

MANUFACTURERS AND SOLE PROPRIETORS OF

TWEMLOW'S CHLORODYNE.

GORDON STREET, LOWER BROUGHTON, MANCHESTER.



ESTABLISHED 1859.

PRINCIPAL OFFICE, 42 CANNON STREET, LONDON, E.O.

BRANCH OFFICES :

NORMANBY CHAMBERS, MELBOURNE,
AND

41 TEMPLE COURT, NEW YORK.

*Published every Saturday.*Subscription 10s. per year, payable in advance ;
commencing from any date.

Post free to every country in the world. Single copies, 4d. each.

Supplied only to persons connected with the Trade.

For Australasian subscribers the subsidiary journal THE CHEMIST AND
DRUGGIST OF AUSTRALASIA is included.

Literary Contents.

	PAGE		PAGE
At the Counter	392	Metropolitan Reports	374
Bankruptcy Reports	393	New Companies	385
Correspondence :—		Notes of Novelties	382
Lime in Filtering Papers ;		Pharmacy in Australia	378
Sun in Window ; Pharmacy		Post-card Competition, No. 9 :	
in South Africa ; Pharmacy		Chemists' Circulars and	
Acts Amendment Bill	398	Counter Bills	380
Dispensing Notes	399	Practical Notes and Formulæ	390
Legal Queries	400	Provincial Reports :—	
Miscellaneous Inquiries	400	Barnsley ; Birmingham ;	
Deaths	385	Bournemouth ; Chesham ..	374
Dental Notes	402	Darlington ; Leicester ; Liver-	
Editorial Notes :—		pool ; Manchester ; Man-	
The Pharmacy Acts Amend-		field ; Sheffield	375
ment Bill	386	Scotland	375
Physicians and Formulæ ..	387	Recent Patents	385
Patent Law ; Liquor Bismuthi	388	Reviews :—	
Imperial Institute ; Pharma-		Drugs and Medicines of North	
ceutical Chaff ; Manganese		America ; Proceedings of	
in Bleaching Powder ;		Chemists' Assistants' Asso-	
Chemical Formulæ	389	ciation ; Manual of Assaying	391
Arsenic in Chloroform	390	Trade Marks Applied for	384
Foreign and Colonial	379	Trade Notes	383
French Pharmaceutical News ..	377	Trade Report :—	
Gazette	384	London	393
Legal Report	383	New York	397
		Hamburg	397

THE PHARMACY ACTS AMENDMENT BILL.

House of Lords, Friday, March 18.

The House went into committee on the Bill to amend the Pharmacy Act, 1852, and the Pharmacy Act, 1868.

The Earl of Milltown on clause 2 moved the insertion of the words, "authorised on that behalf" after the word "Council," so that the clause as amended would read, "that it shall at all times be lawful for the Council, authorised on behalf of the said Society by resolution, on being satisfied by a certificate of a court of the same Council . . . to waive and dispense with the whole or any part of the said term of three years," &c. These words had been inserted at the suggestion of the Lord President, so as to make it quite clear that there was special authority in the Council for that purpose.

The amendment was agreed to.

On clause 4,

The Earl of Milltown moved as an amendment that the Act should be cited as "The Pharmacy Acts Amendment Act, 1888," instead of 1887, as printed in the Bill.

This was also agreed to.

The Bill as amended passed through Committee and was reported to the House.

On Tuesday the report of amendments was received and agreed to.

On Thursday the Bill was read a third time, and passed.

THE CULTIVATION OF CINCHONA.—In the House of Commons, on Monday last, Mr. Henniker Heaton asked the Under Secretary of State for India "Whether the Government of Madras planted cinchona for the purpose of obtaining a febrifuge for the native classes. Whether it is the fact that sales of Government bark are advertised in London papers; that the bark comes to Europe for the manufacture of quinine; and which drug being retailed at an average of some 300 per cent. above the wholesale price (which to-day is 2s. 8d. per oz. for the best) puts it wholly and totally beyond the means of the classes the Madras Government intended to benefit. And whether the present method of selling its bark in the open market in Madras is contrary to the understanding arrived at when the Government ceased to export bark on its own account."

In reply to Mr. Henniker Heaton, Sir. J. Gorst said:—"One of the objects, but not the only one, of planting cinchona by the Madras Government was for the purpose of obtaining a febrifuge for the native classes. Government bark is advertised for sale in London, and comes to England for the manufacture of quinine. Government gets quinine for its medical departments at wholesale prices, and makes the 'red bark' into an effective febrifuge cheap enough to be within the reach of all classes. I do not understand what is the 'understanding arrived at' mentioned in the last paragraph."

THE REDWOOD TESTIMONIAL.—It has been decided to invest 600l. of the fund collected, and to apply the interest annually to the maintenance of a "Theophilus Redwood Scholarship," under conditions similar to those which prevail in regard to the Jacob Bell Scholarship. The balance is to be expended on a portrait of the Emeritus Professor, and we understand that Mr. Sydney Hodges has accepted the commission to paint this portrait. We are informed that he has so far proceeded with the work as to enable those who have seen the picture to declare that a striking likeness is ensured. It is expected that the portrait will be unveiled on the occasion of the annual meeting of the Pharmaceutical Society in May next.

POST-CARD COMPETITION.—We give this week another instalment of circulars, and hope to complete the series of papers and give the results next week.

THE ART OF PHARMACY.—Our supply of the reprints of this treatise is entirely exhausted, so that we can supply no more copies.

DIARY FOR NEXT WEEK.

Tuesday, March 29.

Royal Institution at 3 P.M. Professor A. Gamgee on "The Function of Respiration."

Wednesday, March 30.

Chemical Society, at 8 P.M. Anniversary Meeting; President's address; election of office bearers and council.

Chemists' Assistants' Association, at 9 P.M. Papers (1) "Note on Ipecacuanha Wine," by F. C. J. Bird.—(2) "Note on Water Softeners," by E. J. Millard.

Thursday, March 31.

Royal Institution at 3 P.M. Professor F. Max Müller on "The Science of Thought."

Thursday, April 7

Linnean Society, at 8 P.M. Papers to be read:—I. The Gentians: Notes and Queries. By Professor Huxley.—II. Gephyreans of Mergui Archipelago. By Professor E. Selenka.—III. British Heterocercous Uredines. By C. B. Plowright.

Friday, April 1.

Royal Institution, at 9 P.M. Professor Dewar on "Light as an Analytic Agent."

Saturday, April 2.

Royal Institution, at 3 P.M. The Right Hon. Lord Rayleigh on "Sound."

Metropolitan Reports.

ATTEMPTED SUICIDE WITH LAUDANUM.—Jane Roper, 40, was brought before the magistrate at Greenwich on Wednesday on a charge of attempting to commit suicide by taking laudanum, and was remanded.

THE NEVINGTON VESTRY is distinguished among the governing bodies of the metropolis for its steadfast resistance to the Sale of Food and Drugs Act. Although they have appointed an analyst, the vestry have for some years refused to authorise the purchase of any samples for analysis. At a meeting of the vestry last week an attempt was made to reverse this condition, and several members advocated a more vigorous policy; but the opponents of the motion were in strong force and defeated it by 25 votes to 14. In the course of the discussion a Mr. Hart "unhesitatingly denied that adulteration was carried on in the parish—only in milk. (Laughter.) "Who did not adulterate?" he asked. Even Mr. Kent (the mover of the resolution) was guilty of adulteration in courts of law when he had a bad case. (Laughter.) There was not a man in the room who did not adulterate—Mr. Gee especially, whose pamphlets and papers were full of adulteration. There was his friend Mr. Jones, who sold adulterated articles, and was not afraid to tell him (Mr. Hart) that such was the case. (Much laughter.) The parsons, even, did not always preach unadulterated sermons. (Laughter.) He concluded by contending that there was nothing injurious in articles that were adulterated.

Mr. Pottinger remarked that if action was to be taken it should be taken by the ratepayers, who for 10s. 6d. could have any article analysed. The people knew perfectly well what they bought, and knew when they got value for money.

Mr. Robinson opposed the motion, and said he hoped the vestry would show a light to all London by refusing to persecute the little shopkeepers. The parish was as healthy as any other in London.

The Chairman, in supporting the motion, said Mr. Hart's sermons must be very much adulterated, unless he learned that duty towards his neighbour which told him to be true and just in all his dealings. The course at present adopted was in favour of the rich man who could find his 10s. 6d. for having an article analysed; but was adverse to the poor, who ought to have the protection of the vestry. It was impossible to get milk in the parish of such a quality as to serve the purposes for which it was required. The vestry were not acting up to their duty as protectors of the poor of the parish. Through their action the trade of the parish suffered considerably, for the people, feeling sure of the articles sold at the stores being pure, went there, and obtained what they paid for.

Mr. Robinson: The stores ought not to be allowed. I would burn the lot down, if I could.

MESSRS. A. J. COFFIN & CO., of Holborn, have received notice from the Board of Inland Revenue in reference to a sale of "Delectable Jujubes" by the ounce. Possibly the liability to medicine-stamp duty was occasioned by a card which was exhibited in the window thus worded:—

DELECTABLE JUJUBES.

Composed of Marshmallow, Liquorice, and Tolu.

An excellent demulcent and expectorant for coughs, cold, sore throat, hoarseness, irritation of the lungs and chest.

3d. an oz., 3s. 4d. per lb.

Provincial Reports.

Items of news, and newspapers containing matters of interest to the trade, sent to the Editor, will much oblige.

BARNSELEY.

THE GLASS-BOTTLE TRADE.—Mr. Rylands, of Barnsley, bottle manufacturer, found it necessary in September last to work three shifts of men of seven hours a day to one furnace,

instead of two shifts as usual. This arrangement, though a customary one in the trade, displeased the men, who left without giving a week's notice. Mr. Rylands summoned one, Lindley by name, before the magistrates for leaving his employment without notice, under the Employers' Liability Act, 1875. For the defendant it was contended that the number of shifts could not be altered without notice, and the magistrates concurred in this view, expressing the opinion that as no notice had been given to the men regarding the change, they were entitled to leave without notice. Mr. Rylands carried the case to the Court of Queen's Bench, where judgment has been given for him, the Court holding that the contract between the employer and his workmen did not include any arrangement as to two shifts or three shifts, but left the employer at liberty to alter the hours. This decision is regarded as important in the bottle trade.

BIRMINGHAM.

SERIOUS FIRE.—On Wednesday night of last week a serious fire broke out in the premises of Messrs. Alfred Bird & Sons, manufacturing chemists, at 63, 64, and 65 Moor Street, and continued to smoulder throughout the Thursday. As soon as the information of the outbreak was given, the brigade, which had only just returned from a fire on the premises of Messrs. William Canning & Co., chemists and druggists, of Kenion Street, turned out, but their efforts were of little avail, for the conflagration was only got under until the building was reduced to a shell, the roof having fallen in and left nothing standing but the bare walls. Owing to the nature of the stock Messrs. Bird are unable to form anything like a conclusive monetary measure of the damage, but it is believed it will be found to exceed 4,000l. A large quantity of valuable American automatic box machinery, laid down only a few months ago, and numerous other patent machines of the most costly description, used in the manufacture of custard powder, were destroyed by the conflagration. The origin of the fire is not known. At about eight o'clock on Wednesday night the watchman twice made a careful examination of the premises and turned off the entire gas supply. Messrs. Bird & Sons have temporary premises at 35 Moor Street, and there is little interruption of their business.

BOURNEMOUTH.

THE COMING STRUGGLE.—As briefly announced in these pages some time since, this fashionable town is to be visited by a co-operative drug store. The Southampton Drug Company (Limited)—of which a Mr. Day, formerly a grocer, is the principal shareholder—have purchased premises in the Old Christchurch Road, and as soon as the necessary alterations are completed will commence operations under the title of the Southern Drug Company (Limited). Meetings of the chemists of Bournemouth have been held, and a committee formed to consider what action should be taken in view of the coming competition, and the best course to be adopted to secure the united action of the trade to face the "coming struggle."

CHESHAM.

RED OXIDE OF MERCURY OINTMENT.—At the Petty Sessions on March 2, before Captain Parkinson and Mr. D. Milner, Mr. C. G. Dean, chemist, Chesham, was charged with selling, to the prejudice of Inspector Webb, on January 25, a drug, red oxide of mercury ointment, not of the nature, substance, and quality of the article demanded by the purchaser. Mr. Dean pleaded guilty, and explained that he accidentally and by mistake supplied Inspector Webb with an ointment known in the locality as "Golden Eye Ointment" (a milder preparation of red oxide of mercury than that of the Pharmacopœia), used as an eye salve, and also for various sores, the recipe for making which was handed to him with others from his predecessor. Previously to the inspector asking for the ointment, he had wished to be supplied with some spirits of wine, which he (the defendant) refused, as having no licence to sell it; but it occurred to him whether, by his refusing to supply him, as an inspector, he had not rendered himself liable, and he became somewhat confused and nervous in consequence, and thus it happened

he made the mistake, and accidentally supplied him from a jar with the milder form of ointment, which was kept side by side with that containing the Pharmacopœia preparation. He thought it was unlikely that he would intentionally supply the inspector with an article which he knew to be but about one-third its proper strength. It was purely by accident or misadventure that he did it. Mr. Crouch, of Aylesbury, appeared for the prosecution, and asked the magistrates to record a conviction. He said the county was taking steps to detect adulterated drugs, and it was very necessary that they should be supplied in a pure state, and with the requisite degree of strength. He was aware that the drug in question was sometimes prepared in a milder form, but when asked for it should be supplied in the requisite state. The defendant gave it to the inspector out of the wrong jar. He should ask for a conviction, although the penalty might be a light one. The ointment had been analysed by the public analyst, Mr. Fisher, and his report, as produced, was as follows:—"The sample of red oxide of mercury ointment, for analysis, marked 'Mr. Charles Dean, of Chesham,' contains 4.85 per cent. of red oxide of mercury, instead of 12.4 per cent., or one part in eight, as required by the British Pharmacopœia. It is therefore deficient in the active ingredient to the extent of 7.55 per cent." The Chairman said that the maximum penalty in cases of this description was 20*l*. There had been no previous conviction, this was the first case of this kind at Chesham, and they would inflict only a nominal fine. The Bench were willing to believe that the defendant had made a mistake. The fine would be 2*s*. 6*d*., and the costs, including the analyst's fee of 10*s*. 6*d*., were 1*l*. 0*s*. 6*d*., total, 1*l*. 3*s*. The Chairman requested the press to publish this carefully, in order that it might serve as a caution to others.

DARLINGTON.

LAUDANUM-POISONING.—On Tuesday a woman named Elizabeth Blumer, who has been in a depressed condition of mind, swallowed sixpennyworth of laudanum. She was taken to the hospital, where the stomach-pump was applied and other remedial measures employed to counteract the effect of the poison.

LEICESTER.

LEICESTER AND LEICESTERSHIRE CHEMISTS' ASSOCIATION.—A meeting of this association was held on Friday, March 18, in the Old Town Hall, Mr. E. H. Butler in the chair. A lecture, entitled, "Hints to Students," was delivered by Mr. W. B. Clark. After thanking the council for the honour done him in selecting him to deliver the inaugural address, Mr. Clark gave a sketch of what ought to be the aims and aspirations of a student of pharmacy, and urged that it was very important that students (whom he particularly addressed) should pass the Preliminary examination before apprenticeship, and their student days should commence from the very first hour of apprenticeship. He assured them that they did not lose their professional status by performing trade duties, however menial, for, as Carlyle said, "All labour should bring honour with it." He urged them not to take more than two subjects for study at one time, and to do everything thoroughly. He thought there was a brighter future for the pharmacists, and urged that it was important they should have the support of the law at their backs. He himself did not think there was any great amount of illegal trading in poisons, and thought the law was strong enough to deal with such cases. Referring to the Pharmacy Act now before Parliament, he thought it would drive a number of good men out of the calling of pharmacy. He advised the chemists of Leicester to cultivate a feeling of professional brotherhood towards each other, and so be ready to defend their interests whenever attacked. Mr. Burford proposed a vote of thanks to Mr. Clark for his excellent address, which was seconded by Mr. Thirlby, and carried.

LIVERPOOL.

THE FIFTH SOCIAL WINTER EVENING of the workpeople employed by Messrs. Evans, Sons & Co., Liverpool, was held in the rooms of the Young Men's Christian Association, Mount Pleasant, last Tuesday evening. Mr. William P.

Evans occupied the chair. A miscellaneous programme of readings and music was rendered, in which Mrs. William P. Evans and Mr. Everett Evans took a part.

REGISTERED CHEMISTS' TRADE ASSOCIATION.—The annual supper of this association was held on Thursday, March 17, at the Merchants' Dining Rooms, 5 Castle Street. There was a representative gathering. Mr. Councillor Woodcock, president of the association, occupied the chair, the vice-chair being occupied by Mr. Benjamin Dickins. After an excellent supper and the usual loyal toasts the chairman proposed "The Registered Chemists' Trade Association of Liverpool." In doing so Mr. Woodcock said his duty was something like proposing "Our Noble Selves," and it was on that ground that he felt that he was not called upon to say much in submitting the toast to them. (Laughter.) He could not, however, let the occasion pass without offering a few words. Naturally their association had not achieved as much good as they could desire, but they had to remember that associations, like individuals, could not command success. The association had done as much as it fairly could to redress grievances and to consider complaints; it had fostered and encouraged early closing—(hear, hear)—and had encouraged a kindly feeling of sympathy and forbearance among its own members. Benevolently, the association had assisted those whom they were accustomed to meet at that table who had fallen in need of pecuniary help, and it had busied itself in many ways in benefiting the members in their entirety, and if they had no other record of its existence than the price list they could point to that achievement as a lasting monument to its memory. (Applause.) The toast was drunk amidst enthusiasm, and was acknowledged by Mr. John Bain, the honorary secretary. Mr. B. Dickins proposed "The Liverpool Chemists' Association," which was acknowledged by Mr. A. C. Abraham, F.C.S. Mr. J. J. Smith proposed "The Pharmaceutical Society of Great Britain." Mr. Charles Symes, Ph.D., in acknowledging the toast, defended the Society from the unwarrantable attacks which were so frequently made upon it by those who themselves did nothing to assist in promoting its objects. He also spoke of the advantages which would accrue from the proposed curriculum, which would prove a valuable corrective to the present system of cramming. Mr. F. J. Mackinlay, in proposing "The Chemists and Druggists' Trade Association of Great Britain," urged those present who were not members to join; and Mr. R. Parkinson, local secretary, in responding, hoped and believed the Association had many useful years before it. Mr. W. T. Warhurst proposed "The Wholesale Trade," which was responded to by Mr. Edward Evans. Other toasts followed. An excellent programme of music was gone through, and altogether the meeting was a most successful one.

TENDERS.—The Workhouse Committee have accepted the following (among other) tenders for supplies, from March 25, 1887, to March 25, 1888:—Drugs, Evans, Sons & Co.; druggists' sundries, W. & H. Jackson; drysaltry, J. H. & S. Johnson; indiarubber appliances, the Indiarubber and Guttapercha Company; mineral waters, W. Boote; salt, R. A. Sharp; surgical appliances, White and Wright.

MORE ADULTERATED PEPPER.—At the City Police Court on Wednesday, before Mr. Raffles, Joseph Tranton, grocer, 123 West Derby Road, was summoned for selling adulterated pepper. Mr. Marks prosecuted on behalf of the authorities, and Mr. Gorst defended.

Dr. Campbell Brown said the sample contained upwards of 6 per cent. of pepperette. He produced a portion of the sample and a portion of the ground olive stones which he had extracted from it.

Mr. Gorst said that defendant bought the pepper as pure pepper, and received an express verbal guarantee that it was pure and had been ground by the parties he bought it from—Hedley & Widdows, spice merchants, Circus Street, Liverpool.

Mr. Marks said that this was really the first purely pepperette adulteration that had been brought into court in Liverpool. The others had been pepper and rice.

Mr. Raffles, in giving his decision, said: I shall go on increasing the penalties if the thing continues. I give fair notice, and then if the practice continues shall increase the penalties. I will impose a fine of 40*s*. and costs. The costs amounted to 15*s*.

MANCHESTER.

THE TESTIMONIAL TO SIR H. E. ROSCOE.—Last week a meeting of the past and present chemistry students of Owens College was held at the college, to decide upon the form of testimonial to be presented to Sir H. E. Roscoe, M.P., in commemoration of his thirty years' connection with the college. Professor Thorpe occupied the chair. The committee reported in favour of the presentation to Sir Henry of a portrait of himself, and also of the foundation of a scholarship to be called after him. This proposition was agreed to after considerable discussion, and an appeal will be made to the students, old and new, forthwith.

MANSFIELD.

MORE ADULTERATED PEPPER.—At the Mansfield Petty Sessions on March 18, William Pegg, a grocer, was charged under the Food and Drugs Act with selling adulterated pepper on February 15. From the evidence it appeared that $\frac{1}{4}$ lb. of white pepper was purchased, and on being analysed by the county analyst was found to contain four-fifths of pepper and one-fifth of foreign matter. Mr. Harrison said the firm he represented (Linklater & Sons, London) had been in the habit of buying from the very best manufacturers, but the lot of 3 tons from which Mr. Pegg had been supplied was found to be adulterated although they had bought it for genuine by analysis. The foreign substance was not, however, injurious to health. The Bench said they were bound to protect the public, and that it was a most serious offence. A fine of 15*s.* was inflicted, which, with costs, was to be paid by the wholesale firm.

SHEFFIELD.

IT IS PROPOSED to erect a cottage hospital for Mexborough.

PROFESSOR BARNETT, of Firth College, has, as the result of a widely expressed wish, decided to withdraw his resignation.

DECOMPOSED AUSTRALIAN MUTTON was the cause of dangerous poisonous symptoms in a family of four in this town this week. They were taken to the infirmary and are recovering.

PHARMACEUTICAL COUNCIL.—There is at present a strong feeling in Sheffield that a candidate should be nominated to represent the district on the Pharmaceutical Council. In connection with this the name of a gentleman well known in pharmaceutical circles, and one of the most popular pharmacists in the district, has been mentioned. It is probable, therefore, that before this is in print some decided step will have been taken in the matter.

SCOTLAND.

ABERDEEN.

THE ROUND TABLE, which has become of historic interest, may find its last resting-place in this locality, where, there is no doubt, as jovial a set of fellows will gather round it as could be wished for. At a recent meeting of the Aberdeen and North of Scotland Society of Chemists and Druggists it was proposed to hold a general meeting on June 22, probably at Elgin, the meeting to take the form of a round-table conversation or discussion of trade topics, and a dinner.

EDINBURGH.

NORTH BRITISH BRANCH.—The success of the last evening meeting has been the subject of general congratulatory remark. The attendance was exceptionally good, the discussions were animated and to the point, and a genuine enthusiasm appeared to pervade the gathering. The leading morning paper reported this meeting more fully than is its usual custom, and gave a concise abstract of the chief points of the several communications. Some of the public, however, have commented unfavourably on the fact disclosed by one of the papers that only 50 per cent. of the lime-water obtained in Edinburgh was up to the required standard.

The wisdom of making a communication of this kind to a meeting at which reporters are present on behalf of the general public is open to question, even although it be explained that the worst results were obtained from specimens supplied by "cutting" establishments.

THE QUALIFICATIONS OF ERRAND-BOYS.—A chemist in town advertised a few days ago for a message boy. The following is an extract from the application of one of the candidates for the vacancy:—"In answer to advertisement I beg to offer myself as a candidate. I have not passed the preliminary examination but is going up for the next examination and is now in my study up to the xxx chapter of Caesar, and pretty well up in my grammar." He should have added, "and spelling." The average message boy is well known as an ardent student of literature, but this one, like his favourite author, is "ambitious."

THE CHEMISTS' ASSISTANTS' ASSOCIATION held a meeting on Wednesday evening. There was an excellent attendance. The prize committee submitted a report on the "Ainslie Pharmacy Prize" competition, and the prizes were subsequently presented. Papers were read entitled, "Leaves from a Pharmacist's Note-Book," by Mr. J. Rutherford Hill, F.B.S., and on "The Study of Botany," by Mr. J. W. Govan. The annual conversazione of the association will be held in the Literary Institute on Friday, April 22. The first hour, we understand, will be devoted to an exhibition of pharmaceutical and scientific specimens, in which, no doubt, there will be the usual humorous rarities. The arrangements in this department are under the charge of Mr. J. R. Hill, who will be glad to hear from individuals or firms who desire to exhibit novelties or ancient relics. In the second hour a programme of music will be gone through, after which there will be a dance.

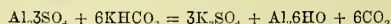
GLASGOW.

LOW PRICES are almost past speaking about; everything is now cut down to the lowest figure, whether it be prescription, drug, or patent. The price-list, to which for a generation or more the leading houses in the city have honourably adhered, is now a dead letter, for the largest firms have found it necessary to dispense physicians' prescriptions at popular prices. This state of affairs is gradually extending its influence all down the coast, and chemists in remote villages find it rather hard when they are told by casual customers that their prices are higher than prevail in the first-class houses of St. Mungo's.

NOTE ON TWO INSTANCES OF INCOMPATIBILITY.

By J. Rutherford Hill.

The first of these occurs in a gargle containing alum, chlorate of potassium, and bicarbonate of potassium. The aluminic sulphate in the alum reacts with the potassium bicarbonate, thus—

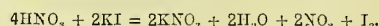


In this way [if the bicarbonate is present in sufficient quantity] the astringent action of the alum is lost. It is therefore a case of both chemical and therapeutic incompatibility. The only way out of the difficulty is to suggest the omission of the potassium bicarbonate.

The second occurs in the following mixture:—

Quininae sulphatis	grs. xxiv.
Acid. nitric dil.	q. s.
Potassii iodidi	ʒij.
Aque ad	3vj.

In this case the nitric acid liberates iodine from the potassium iodide as follows:—



The liberated iodine combines with the sulphate of quinine to form the insoluble iodosulphate of quinine or herapathite, which is gradually deposited as a greenish brown sediment. The best thing to do in such a case is to substitute sulphuric for nitric acid.

WARTS.—A solution of 15 grains of perchloride of mercury (fine powder) in 1 oz. of collodion carefully applied once daily is stated to be an efficacious remedy for these annoying excrescences.

FRENCH PHARMACEUTICAL NEWS.

(From our Paris Correspondent.)

INTERNATIONAL CREMATION SOCIETY.—An international congress will be held in Milan in September, 1887, with a view to form a permanent organisation of the various cremation societies already existing.

PHYSICIANS AND PHARMACISTS. At its last sitting the Paris Society of Practical medicine (*Société de Médecine pratique*) elected three new members, of whom two are physicians, and the other, M. P. Vigier, is a pharmacist. He is not the only one of the profession, however, who has been admitted to membership in the same society, and French physicians appreciate well the value of a pharmacist's opinion on many subjects pertaining to practical medicine.

FINED FOR SELLING PHOSPHORUS.—A Paris pharmacist, whose name is not given, probably to spare his modesty, has just been fined 300f. for selling phosphorus to a person unknown to him, and for failing to enter such sale on the proper books. The fine was nominally imposed for a violation of the law regulating the sale of poisons, but in reality the prosecution was prompted by the General Match Company, to protect their monopoly.

ARTIFICIAL RUBIES.—At the Academy of Science's meeting held on March 14 M. Frémy read a memoir on the researches which he has made with M. Verneuil to artificially produce ruby. An alumina crucible was used, so as to avoid the presence of silica, which has the effect of imparting a lamellar structure to the product. Under such conditions, with alumina separated from calcium fluoride by a perforated platinum septum, they have obtained perfect crystals of alumina, which, being coloured with traces of chromic acid, were an exact counterpart of the natural stone.

A DISINTERESTED ACADEMY.—Among the appropriations passed for the current year, Parliament made the usual grant of 75,000f. for the Academy of Medicine. While the matter was before the Assembly, Deputy Lionville had proposed an increase of 5,500f. for vaccination purposes. The Academy, on being consulted, simply replied that for the last ten years they have been praying that vaccinating centres be multiplied. From the foregoing the committee had concluded that the Academy was not desirous of an increased appropriation, and therefore M. Burdeau, the chairman of the committee, proposed none, and none was granted.

ANOTHER INVENTOR OF LUCIFER MATCHES.—Hungarians were, a year or two since, claiming this invention (in 1833) for one of their countrymen, a pharmacist's assistant named Ironiy. Next Wurtembergers trotted out another claimant, Hammerer, who, they said, discovered matches some time in 1831. And now the French, not to be outdone, are setting up a candidate of their own, M. Sauria, who, according to most reliable testimony, invented those little sticks in January, 1831, when a boy at the college of Dole, in Franche Comté. Later on Sauria became a physician, and is now old and far from rich. To ease the doctor's old age, President Grévy has granted him the dream of every Frenchman who has had misfortunes, namely, a *bureau de tabac* (a tobaccoist's licence)—a very appropriate position for an inventor of matches.

THE INSCRIPTION FEES IN FACULTIES.—These inscriptions are a sort of matriculation fee that formerly students in faculties and the superior schools had to pay quarterly, on taking out their card of attendance. Two or three years ago the inscription fees were abolished. They amounted yearly to 100f. for candidates to the degrees of *officier de santé*, or pharmacist of the second class, and to 120f. for the doctors of medicine or pharmacists of the first class. The suppression relieved to this extent the students, but at the same time decreased the income of the faculties—a serious matter for such institutions as the Paris Faculty of Medicine and College of Pharmacy, which number 3,000 and 800 students respectively. The Superior Council of Public Instruction is now considering the Government's proposal to re-establish the inscription fees, with every prospect of agreeing to the project. It would increase by 360f. the cost of a diploma of doctor of medicine or pharmacist of the first class.

THE MICROBE OF YELLOW FEVER.—At a public lecture delivered by Dr. Brouardel on potable water, he incidentally stated his belief in Koch's cholera bacillus. This was on February 5, at the Sorbonne. He said the difficulty of proving the identity of the bacillus—or microbe, if you like—of cholera, as well as of yellow fever, is the present impossibility of cultivating them in a proper medium. Man, so far, appears the only creature affected by these diseases, and experiments cannot be carried on with human beings as with inferior animals. Now it seems the solution of the problem has made one step forward—at least, so far as yellow fever is concerned. On March 21 Dr. Vulpian reported before the Academy of Sciences, upon a memoir presented by Messrs. Domingues Brothers, Paul Gibier, and Rébourseau, on the yellow fever microbe and its attenuation. They find it is attenuated by passing through the rabbit and the guinea-pig, which it nevertheless causes to die. But when thus attenuated it no longer produces the disease in other animals, and the authors of the memoir have vaccinated with this attenuated virus a number of persons, who appear to have become proof against yellow fever. This is no doubt a hopeful beginning, but it is only a beginning.

SCHOOLS OF VETERINARY MEDICINE.—In accordance with a law recently passed President Grévy has just issued a decree re-organising the French veterinary schools. The principal features of the document, a long and minute one, are as follows:—The veterinary schools at Alfort (near Paris), Lyons, and Toulouse shall be under the authority of the Minister of Agriculture and the Prefect of the Department where they are situated. They will admit boarders, semi-boarders, and *externes* (out-door students). Foreigners shall be allowed on the same terms as French citizens, which shall be 600f., 400f., and 200f. per annum for each class of students respectively. Between the three schools 140 scholarships shall be granted to deserving young men. All shall wear a uniform. Admission shall be obtained by competition only. Candidates shall be at least seventeen and no more than twenty-five years of age, and after 1890 must have the diploma of *bachelier ès lettres or ès sciences*. Until then a preliminary examination shall be held before a jury. The course of instruction shall be four years, annual examinations being necessary for promotion to the ensuing higher class. The diploma fee is placed at 100f. The decree also provides for discipline and punishments much resembling those of a military school, and fixes the emoluments of professors and employés. These vary from 9,000f. to the director; 7,500f., 6,500f., and 5,500f. to the professors; down to 1,200f. to the lowest-paid laboratory porter.

JURIES FOR THE COMING FRENCH EXHIBITION.—M. Edouard Lockroy, the Minister of Commerce and Industry, appointed, on March 12, the admission committees for most sections of the International Exposition for 1889. The two following are of some interest to the readers of THE CHEMIST AND DRUGGIST. In the official paper the committeemen are of course given their official titles, but in the subjoined lists they are simply qualified with a word or two that will perhaps better identify them for the English reader. The term "professor" used below is not to be taken always in the strict French acceptance, it means only a professional chemist in a general way. For Class 45, chemicals and pharmaceuticals, an admission committee of twenty-five members has been appointed, as follows:—Messrs. Armet de Lisle, quinine manufacture; Barbe, dynamite; A. Blouet, glue and oils; de Bonnard (of Coignet & Co.); Senator Léon Chiris, essential oils; Ph. de Clermont, professor; Debray, academician; Felix Dehaynin, expert; D. Gernez, professor; A. Gicquel, pharmacist; C. Guibal, indiarubber; Ernest Hardy, expert; Houet, paints and varnishes; Jules Kolb, chemical manufacturer; Lindet, professor; Linget, glycerine; Nicolas-Victor Masson, military pharmacist; Senator Naquet, chemist, author of the divorce law; E. Péligot, professor; A. Poirrier, aniline colours; Alfred Riche, professor at the College of Pharmacy; Senator Scheurer-Kestner, chemist; Froost, professor; A. Vée, wholesale druggist; Frederic Wurtz, pharmacist, a son of the late Ch. Adolphe Wurtz.

For Class 28, perfumery, the following have been appointed:—Messrs. A. Chouët (firm of Dr. Pierre); Edmond Coudray; Gallet père; Oume Guerlain; Lecarron (firm of Gellé); L'Hôte, expert; Piver; Paul Prot (firm of Lubin); A. Raynaud.

PHARMACY IN AUSTRALIA.

FIGHTING THE STORES.—The victory gained by the Victorian Pharmacy Board over the Equitable Co-operative Society has disarranged the plans of all the co-operative societies in Melbourne, as far as pharmacy is concerned. The Equitable at first announced that their pharmaceutical business was being transferred to the dispenser, who had conducted the branch from the commencement. Apparently the managers and the dispenser were unable to come to terms, for the latter subsequently resigned, and the society decided to entirely discontinue dispensing for the time being. The Federal Co-operative Society have sold their pharmaceutical business to the dispenser, who under certain conditions carries it on on his own account, but at prices agreed upon by himself and the society. This business is said to be small but growing. The Mutual Stores claim that they are not on the same footing as the other stores; they deal only with their members, and are more conservative in their methods of business, even to the avoidance of advertisements. They have been established many years, and have endeavoured to comply with the law. But the prosecution of the Equitable Society and the way in which it has been endeavoured to apply the result to them have caused a certain amount of irritation. The action of the Pharmacy Board is said to have been a good advertisement, and applications for shares have greatly increased. Moreover, it is stated that the dispensing business has suddenly grown about twenty-five to thirty per cent. as compared with last year. The total drug business has also much increased; the returns for the month of December, 1886, were 6247, as compared with 5307 in December, 1885. The management are not disposed to follow the example of the Equitable. They propose even to extend their pharmaceutical business. There is a shop adjacent to the store which is the property of the company; this is to be fitted up as a pharmacy and let to a registered chemist or chemists. The company will find capital at something over 10 per cent. interest, secured on the stock, &c., and will fix the terms at which the dispensing and retail business is to be conducted—namely, about 25 per cent. below ordinary retail prices. The chemist's income will depend on the profits he can make over and above the interest charged by the stores for capital. The step proposed will involve an expense for rental of at least 3000. to 4000. annually; and it will evidently require some robust faith in the principle of "small profits and quick returns" on the part of the adventurer who accepts this modest proposal.

NEW SOUTH WALES—SYDNEY.

Mr. Melhuish has been elected an examiner, vice Mr. W. Larmer, resigned.

Mr. Edward Thornton has been appointed a member of the Council of the Pharmaceutical Society, in the place of Mr. Larmer, resigned.

THE OFFICIAL ORGAN OF THE PHARMACEUTICAL SOCIETY.—At the January meeting of the Council the secretary read the new agreement with the proprietors of *THE CHEMIST AND DRUGGIST*, London, and *The Chemist and Druggist of Australasia*, upon the latter journal becoming the official organ of the Society. The terms being considered very favourable to the Society, it was unanimously decided to ratify the agreement. An application from the *Australian Journal of Pharmacy* to be furnished with reports of meetings of the Council, &c., was objected to, upon the ground that the Society having an official organ, no necessity could be shown for supplying reports to another journal; especially as all the members of the Society received copies of *The Chemist and Druggist of Australasia*, whereas only three or four members were likely to see the *Australian Journal of Pharmacy*.

REGISTRATION OF APPRENTICES.—The Pharmaceutical Council have resolved that henceforth apprentices will have to pass the preliminary examination (which is similar to the British preliminary examination) before their indentures can be registered. Hitherto it has been the custom to accept a certificate from the apprentice's last schoolmaster, but this has proved unsatisfactory, and it will be a step in the right direction to compel all apprentices to pass a preliminary examination.

In addition to the wholesome discipline of such an examination, it will tend to weed out a large proportion of those who are mentally unfitted to pass the ordeal of the qualifying examination. Under the old system a youth became apprenticed with little or no guarantee for his fitness, and very often came up for the final examination most abnormally unqualified to pass it, and then vented his anger and disappointment by abusing the examiners and all concerned. With a few exceptions, it seems almost a hopeless task to make students understand what will be expected of them, there being an almost universal idea that a few weeks' preparation before the examination will thoroughly fit them to pass the ordeal.

QUEENSLAND—BRISBANE.

A NEW PHARMACY BOARD was elected on December 31, 1886. The first board, which consisted of four chemists and three medical men, was appointed by Government, but one of the medical men died soon after and his place was not filled. At the late election there were fourteen candidates for the seven seats, and the votes were cast as follows:—Ed. Taylor (Berkley, Taylor & Co.), 78; C. H. F. Yeo, 76; D. J. Clarke, 72; J. H. Fitzgibbon, 64; A. W. Field, 59; T. W. Thomason, 52; Dr. Hill, 32; H. Comack, 28; L. C. Dunne, 27; Dr. Ellison, 25; Dr. Kesteven, 13; W. G. Claperton, 12; Dr. Gibson, 11; W. J. Costin, 11; therefore, with the exception of Dr. Ellison, all the old members were returned. The newly elected board retain office for three years. At the first meeting of the new board, on January 11, Mr. Yeo was elected president, and Mr. Ed. Taylor honorary treasurer. At a subsequent meeting Mr. A. W. Field was appointed examiner in botany and materia medica, Mr. D. J. Clarke in pharmacy and dispensing, and Mr. T. W. Thomason in chemistry.

Mr. D. J. Clarke arrived in Queensland some twelve years ago, and served his apprenticeship to his uncle, Mr. D. Clarke, then of Warwick, but now of Maryborough; he is now in business at Brisbane as D. J. Clarke & Co.

Mr. T. W. Thomason is a native of Shropshire, England, and in 1878 commenced business for himself in Birmingham. After three years in business, delicate health caused him to leave his Birmingham business in the hands of a manager, while he took a country place for two years; but, wishing for more extended fields, he booked for Queensland, and arrived in Brisbane in March, 1884. He purchased the business of Mr. Hains, in Stanley Street, South Brisbane, and has since opened four branches. He has lately taken into partnership A. E. and H. W. Thomason.

FAILURE.—A petition has been filed for the liquidation by arrangement or composition with creditors of the estate of William John Costin (trading as J. Costin & Co.), druggist. The liabilities are stated at 23,7367. We understand that this in no way concerns the Queensland Drug Company, of which Mr. Costin is manager, but refers to private transactions.

SOUTH AUSTRALIA—ADELAIDE.

INTENSE HEAT.—On Friday, January 7, the maximum temperature recorded was 162° in the sun, and 106° in the shade; Saturday, January 8, it stood at 157·3° in the sun, and 110·1° in the shade; while on Sunday, January 9, we reached the highest record for the season, viz., 164° in the sun, and 111·2° in the shade. These records are taken from the Observatory register, and similar high readings were general throughout the colony.

AUSTRALASIAN BOTANY.

Baron von Mueller is writing a series of notes on Australian plants in *The Chemist and Druggist of Australasia*.

MUSK-SCENTED GNATS.

To the list of sources of musk must be added a kind of gnat, order Hemiptera, class Reduvidæ, genus *Amulius* (*Stol.*), which is so common in the bush at times as to fill the air with a musky odour. The source of the odour has hitherto been an enigma, but has at last been traced by Mr. A. Alder, of Caloundra, Queensland, and the insects classed by Mr. Tryon of the Brisbane Museum.

Foreign and Colonial.

THE GENEVA INTERNATIONAL PHARMACEUTICAL EXHIBITION, which was to be held next year, has been postponed until 1893, in order not to clash with the great Paris Exhibition of 1888.

THE SWISS SPIRIT MONOPOLY BILL is about to be referred to the decision of the electors of the country, and, so far as the public press may be taken as an indicator of popular feeling, there is no doubt that the measure will be carried.

PERFUMERY IN THE STRAITS SETTLEMENTS.—Enormous quantities of cheap perfumery are used in these colonies, especially lavender and Cologne waters, the former selling at 6s. 6d. to 7s. 6d. per dozen bottles! High-class perfumery is not in demand.

COCAINE ON THE POISON SCHEDULE.—An agitation is now being carried on in the State of New York with the object of placing cocaine on the list of poisonous drugs, to be sold only on a physician's prescription.

PEPPER-GROWING IN BORNEO appears to be largely on the increase. At Sarawak there are a large number of very well managed gardens, and the only drawback to the extension of the industry is the scarcity of Chinese labour, notwithstanding the salubrity of the climate and the fact that the Government allows a free passage from Singapore to the coolies.

"DR." RITCHIE AND THE MINISTRY OF PUBLIC HEALTH.—We learn from Continental journals that a special Ministerial Department for Medicine is about to be created in England, which will include everything pertaining to the public health. "Dr." Ritchie, president of the Local Government Board, is designated as the first head of this new ministry.

PROJECTED INTERNATIONAL EXHIBITION AT SHANGHAI.—The *Handelsmuseum* understands that obstacles have arisen in the realisation of the project for an International Exhibition to be held at Shanghai in 1888. The Chinese Government, it is reported, considers the time fixed for the exhibition premature, and, besides refusing pecuniary assistance, declines to admit goods for exhibition duty free. In view of this decision endeavours are being made by the promoters to get up an exhibition on a smaller scale, by the aid of public subscription and a subsidy from the local authorities.

FIRE AT AN AUSTRIAN WAX AND STEARIN WORKS.—German papers state that on March 8, early in the morning, a fire occurred at the stearin candle and wax manufactory of A. Sarg Sohn & Co., Licsing, near Vienna. The whole of the ceresin and wax departments are said to have been destroyed, and the remainder of the works was only saved with the utmost difficulty. A later report states that the ceresin department only was destroyed, although the loss (covered by insurance) will be a heavy one, as the entire stock of ceresin has been burnt up. The London agents of Messrs. Sarg inform us that they are without any knowledge of the occurrence.

MINERAL WATERS IN PENANG.—The bulk of the aerated water consumed in Penang and the Straits Settlements is soda water of local manufacture. Acid water is more or less an article of fashion in Penang, and its consumption varies considerably without any apparent reason. At present, it is said, German aerated waters are particularly liked in Penang, especially the Genova water from Cologne (a natural super-carbonated water), and Rosbach carbonated water. The former is sold in cases of 100 small bottles at 33s. 4d. per case. In the adjoining island of Sumatra there is a very good demand for Schweppe's waters.

AMERICAN-GROWN RHUBARB.—The *National Druggist* states that it has received a piece of the root of *Rheum palmatum*, grown in the garden of Mr. J. W. Colcord, a pharmacist of Lynn, Mass. The seed was planted in 1884. The specimen compared favourably with the foreign drug as far as taste, smell, and general appearance were concerned. A microscopic examination showed a preponderance of starch, and less oxalate of calcium. Mr. Colcord has expressed his

confidence that when the home-grown plants reach the age of eight or ten years they will furnish as fine a quality of rhubarb as the Chinese drug.

PROPRIETARY PREPARATIONS IN GERMANY.—It is reported that a Bill will shortly be laid before the German Parliament establishing a uniform law on the subject of proprietary medicines throughout the Empire, and making it penal to publicly advertise and recommend any proprietary preparations whatever. The authorities have hitherto been unable to proceed with the effect they desire against the spread of quack-remedies, on account of the confused condition of the laws affecting the traffic, which vary in the different parts of the Empire. While, for instance, in Rhenish Prussia any advertising of secret preparations by pharmacists is severely punishable, there is no such law in the adjoining provinces, and the legal views of what constitutes a "secret preparation" are also subject to great variation. The Bill will be brought forward by the Government during the present session of the Reichstag, and no serious opposition is anticipated.

GERMAN ENTERPRISE IN AFRICA.—*Kühlon's Trade Review* mentions that the second expedition organised by this company for the promotion of German trade will leave Germany in April or May next for different points on the West Coast of Africa. Only German goods will be dealt with, and the company purposes establishing factories and stations at various points with a view to the manufacturing of these. Far greater expeditions are held in prospect. It is anticipated that the undertaking will prove of immense value to German exporters, and establish German commodities on a secure footing.

THE ANALYTICAL CHEMISTS IN SWITZERLAND held a meeting in Lucerne this month at which it was decided to form a society for the purpose of protecting the interests of their profession. It is also proposed to communicate, for the benefit of the society at large, the methods of examination followed by its members, especially as regards the chemistry of alimentary substances. The committee for the first year consists of Dr. Weber (Zurich), Dr. Ambühl (St. Gallen), and Dr. Schaffer (Berne).

PHARMACEUTICAL LEGISLATION IN ITALY.—The Italian Government, it is stated, are preparing a law empowering the National Sanitary Council in Rome to prohibit the importation into the country of any medicinal preparation, and requiring importers to obtain the consent of that body for the importation of each parcel. Alcoholic medicines will have to pay duty under two different heads, first according to the class of the tariff in which they are included as medicines, and next for the amount of alcohol which they contain. The latter tax will be fixed by the Sanitary Council, assisted by three chemists appointed by the Minister.

NATIVE VETERINARIES IN INDIA.—Mr. J. F. Price, Acting Director of Revenue Settlement and Agriculture, Madras, submitted in August last certain proposals regarding the education and employment of *salutaries* (native veterinary practitioners). His idea was that these men should be recruited from the ordinary ryot class, that they should be placed under experienced inspectors of cattle diseases for six months' training, and receive pay at the rate of 10 rupees per month during the period of probation, and 20 rupees per month as a maximum salary, the object being to educate a large number of natives in the European method of castration, and then let them return to their own parts of the country. These recommendations have been sanctioned by the Government of Madras, and operations will, for the present, be confined to the districts of Salem and Coimbatore, because here the experiment in pony-breeding is being carried out.

THE SALT QUESTION IN INDIA.—The Government of India several years ago offered a reward for any process which would render salt unfit for human consumption while not affecting its fitness for the use of cattle. We now hear that Professor S. Cook, of the Poona College of Science, has devised a process which fully meets the conditions laid down, but that the Indian Government have rejected it on the ground of inexpediency. It is said, however, that Professor Cook will probably claim the reward offered by the Government.

POST-CARD COMPETITION—No. 9.

CHEMISTS' CIRCULARS AND COUNTER BILLS.

In our first notice of the documents which we have received for this competition the relative behaviour, as regards advertising, of two different chemists was referred to. One enterprising chemist does not forget the dispensing department of his business, for which mainly he struggled through years of study, and wishing to cultivate it more, he composes the following high-flown statement, gets it printed on a gilt-edged card which will slip into a prescription envelope, and sends a copy of it with a polite letter to each of the doctors in his neighbourhood as well as to residents:—

JOHN THOMSON,

DISPENSING CHEMIST,

Begs respectfully to intimate to the medical profession and the public that he devotes himself specially to the dispensing department of his business, holding all the other departments in strict subordination. He employs none but the finest and purest drugs and chemicals which can be obtained, quite irrespective of cost, and all the details of manipulation are under his direct personal inspection and superintendence.

It is his scrupulous aim and endeavour to carry out the intentions of the medical practitioner with absolute integrity. For this end prescriptions are dispensed with preparations made in accordance with the processes of the British Pharmacopœia, and foreign prescriptions are compounded agreeably to the Pharmacopœias of the various countries in which they are written—United States, France, Germany, Italy, &c.

In cases of necessity, medicines can be obtained at any hour of the night, and on Sunday when the shop is closed, by ringing the night-bell.

(T. S., Edinburgh.)

And so we might illustrate Mr. Thomson's conduct during the whole course of his business career. He loses no chance for adding to his work; takes every advantage of public crazes, whether it be for house-cleaning or photography, and by persistently circularising impresses the public that he is conscientiously carrying out the promise of his opening announcement.

This competition has given us an opportunity of judging how the drug trade advertise, and we may now refer more particularly to the different methods of advertising suggested by our competitors. Very few who send us printed matter tell us what results they have had by issuing it. Amongst those who do give their opinions is Mr. T. J. Mallett, and, as his sentences are forcible, we give them here as they occur on his post-card:—"I have given up using counter bills entirely; *they don't pay*. Instead, I have had a series of slip labels printed advertising various specialities, and no parcel, not even a penny package of senna, or rhubarb, or a patent medicine, leaves my establishment without one of these labels attached. I have found them to bring in fruit a hundredfold. If I sell a penny package of magnesia, rhubarb, senna, Epsom salts, a label describing the virtues of my saline aperient, liver pills, diarrhoea mixture, neuralgia mixture, lavender water, and so on is attached to the back of the parcel or package. With a little judgment the labels generally sell something; and what is more, the people are *bound* to read them. That is the great trick in advertising. Thousands of counter bills are used for pipe-lights, and never get read at all." The following is, as near as we can give it, a facsimile of one of Mr. Mallett's labels:—

—♦♦ TRY ♦♦—
MALLETT'S NEURALGIC MIXTURE

A certain, safe, and reliable Cure for
NEURALGIA, FACE-ACHE, TIC, TOOTH-ACHE, AND
ALL NERVE PAINS.

PREPARED AND SOLD ONLY BY

T. J. MALLETT, Chemist,

7 LUPUS STREET, ST. GEORGE'S SQ., LONDON,

In Bottles at ONE SHILLING, by Parcel Post, 1/3.

A similar idea is carried out by "Gratitude," who has to struggle under the worst aspects of the cutting trade, and

whose card, "Cut everything low," was reproduced in our first article. He has a series of labels for affixing to all proprietary articles which are sold at a reduced price. Thus, for Eno's fruit salt the following is used, printed in crimson ink on a slip 4 in. long by 1½ in. deep:—

SPECIAL.

We would call your particular attention to our

"EFFERVESCENT SALINE,"

in bottles same size as "Eno's Fruit Salt," at about *one-half* the price. No advertising to pay for. Please compare.

To be obtained only of

(Here name and address of the chemist.)

This system of advertising is at least forcible, but in many cases it is risky, and should be cautiously gone about.

Original designs are somewhat at a discount in the competition, although a few striking ones are to be found in the large bundle before us. Mr. E. T. Burrow (Wellington) sends an elaborate drawing of a compass similar to John o' Groat's, within a square, on each side of which is printed the word "Health," within a halo. The central square of the compass contains its title, "Carr's Health Compass," "Specially for the Winter" being on the segments surrounding it, and each cone or segment of the compass has a brief notice of a remedy for a winter ailment, those given being coughs, rough skin from wind, chilblains, neuralgia, chapped hands, sore lips, colds, asthma, sore throat, and rheumatism. The reader is told, "If you wish to remain healthy through the winter you should place yourself under the guidance of this compass, which will point out a remedy for nearly every winter complaint."

Mr. T. D. Wright sends a design for a handbill on specialities for children, in which the figures of children are utilised for displaying on flags the virtues of the specialities.

The six boys have fantastic caps, and are otherwise attractively depicted. The card reads as follows:—

**SLEEPLESS NIGHTS, MUCH SUFFERING,
PREMATURE DEATH AVOIDED,**

By the timely and judicious use of the following medicines.

[First flag]—Teething Powders without Mercury.

[Second flag]—Infants' Preservative. Contains no Anodyne.

[Third flag]—Children's Cough Syrup, 6d. and 1s. per bottle.

[Fourth flag]—Worm Powders, Cakes, or Tablets.

[Fifth flag]—Baby's Gum Soother, a palatable syrup for the gums, 6d. per bottle.

[Sixth flag]—Children's Diarrhoea Drops, 6d. per bottle.

For lavender water "P. O. B. T." suggests a piece of thick white blotting paper, with an imprint of a figure of a bottle of the perfume in the centre, the date-stamp in the right-hand upper corner (the date in order to show how long the perfume lasts), and particulars as to price at the bottom. These cards are to be sprinkled with the perfume, and a statement to that effect printed upon them. To complete the design, "P. O. B. T." suggests that lavender ink should be used. This suggestion has already been carried out by perfumers; chemists, however, might do it on their own behalf, having blank cards printed, which can be used for any perfume, the ordinary label being affixed to the centre of the card. Ladies have a peculiar fondness for preserving anything which has a nice perfume, and chemists might take more advantage of this weakness by imparting fragrant odours to cards which specially appeal to the fair sex. Of printed designs one of the best which we have received is a counter-bill for "Stop-ache," used by Mr. Samuel Lawrence. This shows the horrors and joys of a toothache hospital. "Ye benefactor" and his patients are depicted in silhouette style. "Ye benefactor" (a man with Gladstonian head and Harcourtian figure) dispenses the Stop-ache to a suffering patient, while another tragically enters the door. This scene occupies the top of the bill; the left side of the bottom portion shows the retiring and joyful patients—men, woman, and boy—who exclaim, "Hurrah! the certain cure." The handbill is so striking, on account of this illustrated portion, that it is one which is likely to be saved from the flames, and time thereby

be given to reflect upon the descriptive matter, which is of the usual character, including several testimonials and the following paragraph:—

But why suffer from Toothache?

Ain't prevention better than cure? Microscopical examinations have proved that vegetable fungi develop, unobserved by the naked eye, upon the teeth of over four-fifths of the human race, from which all diseases of the teeth arise. Don't neglect your teeth, but use L—'s LIQUID DENTIFRICE, which prevents the development of fungi, or, if present, removes such; thus doing away with the primary cause of toothache and decay. It not only cleanses, beautifies, and preserves the teeth, but it also renders the gums firm and healthy, and imparts a delightful fragrance to the breath.

A circular of similar design is used by "J. J. O. E." for advertising an ivy-green ethereal solution for corns. On this pharmacy in its ancient and modern aspects is depicted, beginning at the bottom with the alchemist, and then the apothecaries of Old London and of a century ago, and finishing with the druggist of George IV.'s time and the chemist and druggist of to-day. This handbill, we notice, is printed by Mr. H. Silverlock.

The Jubilee has called forth few efforts in the way of special circulars, the most notable being a Jubilee puzzle, sent by Mr. W. S. Harvey (Margate). On one side this shows a portrait of the Queen in the centre, with figures or scenes representing England, Scotland, Ireland, Australia, Canada, and India. The reverse side contains advertisements of trade specialities. The card is cut into pieces of different sizes and placed in a small envelope bearing a portrait of the Queen. Mr. Harvey states that "A few given away will soon create a demand (especially among the young customers), and if restricted to customers only, the cost of circulating will be nil. The recipients will be amused, and their friends have an opportunity to read the advertisement. The present year offers the advantage to many to localise this puzzle by choosing for the picture a sketch of the local memorial of the Jubilee."

When much money is spent upon a circular it is advisable, especially in a small business, to incorporate with it some information which adds to its value, and which will induce the one who gets it to keep it for reference. An almanac or time-table is generally the plan adopted for this purpose. One of the latter, sent by Mr. H. Cumber, junr. (Guernsey), is a ten-page circular, each page measuring $5\frac{1}{2}$ in. by $3\frac{1}{2}$ in., into which size it folds up. There are five pages of information regarding omnibuses, tram cars, &c., with fares, the backs of the pages displaying business announcements. A good deal of business capital may be made out of such time-tables. They require, however, to be issued monthly or quarterly, and the expense of so doing may preclude many from adopting this method of advertising, but an arrangement with a printer to keep the type standing would greatly reduce the outlay. The business announcements should be occasionally changed. Mr. R. H. Richards (Honiton) sends a design for a portfolio of "local views with interesting information." This professes to give information or history of some local church, hall, promenade, or the like, with view. Then follow four pages of business announcements, and the sixth page is reserved for a list of the principal sights and walks in and around the town, cab fares, &c. The last two pages are taken up with more advertisements, while boards are occupied by a preliminary announcement and a view. Such portfolios are of value in towns resorted to by summer visitors, to whom copies should be sent as soon as their arrival becomes known. Mr. Richards's design contains rather much of the advertisement about it, but the idea is there, and may be worked upon by those who are inclined. Here we may remark that the chemist who can take a photograph can make great use of his skill by illustrating such portfolios with small photos; and it is well to combine the "interesting information" or the view with a small advertisement on the same page. Thus a small vignette view of Lake Windermere, with notes of what there is interesting about it, should be combined with a note on a Windermere souvenir, such as the "Windermere bouquet." We know that this is done in several watering-places with good results.

Mr. J. J. O. Evans (Teignmouth) sends us a four-page circular, beautifully printed in blue and gold. The feature of this circular is the second page, which we here reproduce

on a reduced scale. The page of the original is octavo size. The border, lines, and titles are in gold, the rest in blue, and the divisions in one column correspond in depth to those in the opposite column:—

Indigestion. Rhubarb and Dandelion Pills. For Indigestion, Heartburn, Headache, &c. As a Dinner Pill, this combination is not excelled. PRICE 1/- and 2/6.	The Anti-Catarry Smelling Salts. Useful and refreshing, for summer and winter use. PRICE 1/6, 2/6, &c.
Malt Food. For Infants and Invalids. A scientific combination peculiarly suited to weak and debilitated persons. ONE POUND TINS 10/- each.	Astringent Eucature. For the Gums. A most useful detergent Tonic for tender and unhealthy Gums. * PRICE 1/-, 2/-, &c.
Sea Weed. Essence of Sea Weed, or Sea Pod Liniment. For Weak Joints, Sprains, Enlargement of Glands, Rheumatism, &c. Extensively used in all parts of England. PRICE 1/1½, 2/3, 4/6, and 11/-	Regenerative Hair Dressing. For falling Hair, the result of Debility and want of Tone in the Scalp. Never fails to improve the Hair. PRICE 2/-
Sunburn Lotien. An application for Tan, Freckles, Sunburn, Bites and Stings of Insects, and excoriation by the East Wind. PRICE 1/6 and 2/6.	Aqua Rat Tooth Paste. For the Teeth. A very good cleanser of the Teeth and preserver of the Gums. PRICE 1/- and 6d.
Coughs and Colds. Compound Syrup of Horehound. A palatable and efficacious Mixture for relieving Coughs and Sore Throats. PRICE 1/1½ and 2/9.	Grape Salt. One of the most pleasant Effervescent Salines made. Invaluable in Nausea, Biliousness, Headache, &c. PRICE 1/- and 1/9.
Oil of Mustard. An elegant and effectual substitute for Mustard Plaster. PRICE 6d., 1/-, &c.	Aromatic Sal Volatile. A peculiarly strong and fragrant preparation, as made for half-a-century by a well-known Provincial Firm. IN STOPPERED BOTTLES.
Rheumatic Embrocation. An external remedy, stimulating and soothing. May be used for Headache, Neuralgia, Sprains, &c. PRICE 1/1½ and 2/3.	Iron and Quinine Tonic. Dr. Barlow's Tonic Drops. For Tic, Neuralgia, Toothache, and the weakening effects of a Cold. Does not induce Headache. PRICE 1/1½ and 2/3.

A similar design is sent by John o' Groat's. Mr. Evans states that he has found this page to be repeatedly sent back with several of the preparations marked for purchase, thus proving its value as an advertising medium. This circular was not sent for competition.

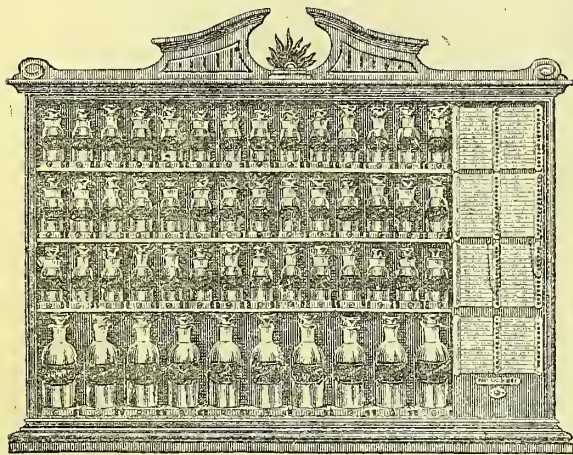
(To be continued.)

HECTOGRAPH copies are, with the exception of the two or three first ones, rather blurred. It is recommended to dampen the paper with alcohol and take up the excess with a blotter. The copies to the last one will be much sharper.—*Ph. Centrale.*



ELECTRIC POISON CABINET.

THE subjoined illustration shows a front view of the poison cabinet which was recently exhibited at a meeting of the Pharmaceutical Society by Mr. H. Abbot (of Messrs. Lotz & Abbot, Queen Street, E.C.). Each bottle, as we have previously explained, is placed in a wooden slide, which can only be removed by making an electrical circuit. This is done in a very simple manner. Behind each bottle is a



small electro-magnet with a contact breaker, which falls and acts as a catch to the bottle slide when there is no electric current. To make a current the labels for any bottle are looked for on the indicator at the right, and the pins put into the holes. This makes the connection with one pole; but if only one pin is put in, the connection is only half made, because the wire passes from one label to the other, so that if one hole is unoccupied there is a break at one end or in the middle. The circuit is completed by pressing the button. As soon as the circuit is completed, the catch is raised by the electro-magnet, and the slide with its bottle may be withdrawn. If one pin were put into a chloral label and another into the strychnine label there would be no action, because the two pieces of wire have no connection with each other. When one slide is removed, connection with the battery is cut off, so that it is impossible to make electrical connection with any other bottle until the first one is returned to the cabinet. This is intended to prevent mistakes, which sometimes happen when two or more bottles are on the dispensing counter at the same time. The arrangement is applicable to ordinary shop-fittings, as well as to small cabinets for the most toxic remedies.

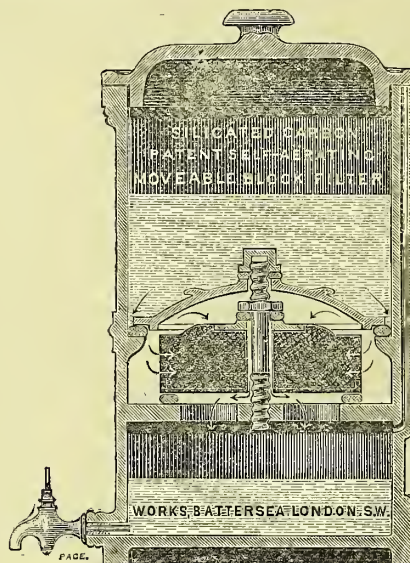
"REAL VIOLETS."

THIS is the taking title of the latest work by Messrs Warwick Bros, of Old Swan Lane, E.C., which consists of a "new and recherché breath pastille." The makers claim to have seized the love of the violet, freed it from its material body, and embalmed it in sugar. Along with the love they have taken the colouring matter of the flowers, and the result is a diamond-shaped lozenge of the colour of wild violet petals. The flavour of the lozenges is exquisite, and

we doubt not that they will be known and appreciated long after the London season, 1887. With "Real Violets" the chemist may have a square cut-crystal show-bottle for placing upon the counter perfume case. This is effectively labelled and will help the sale of the novelty.

AUTOMATIC AERATION OF WATER.

THE Silicated Carbon Filter Company, Battersea, are introducing for the season's trade an improvement in their well-known patent movable-block filters, consisting in the addition of a patent aerating cover which encloses and surrounds the filtering-medium. As will be seen in the drawing,



a space for air is left at the sides and top of the silicated carbon block, so that each time that water is poured into the top compartment of the filter the air is forced by the weight of water through the filtering-medium and combined with the filtered water, thus automatically aerating it. The inventors claim that not only are the grosser impurities arrested and strained out of the water before coming in contact with the filtering-medium by the asbestos ring on which the aerator cover rests, but that the filtered water being charged with air is brighter, more sparkling, and consequently less flat than ordinary filtered water. The whole of the filter can be immediately taken to pieces for cleansing and renewal, and the success that has attended the silicated carbon self-aerating table-filters, which we noticed some months since, has induced the company to extend the improvement to their domestic and other filters.

MESSRS. BARCLAY & SONS announce by advertisement that they will shortly supply that old-established medicine, Mrs. Johnson's American Soothing Syrup, in a 1s. 1½d. size as well as a 2s. 9d. size as at present. The bottle now sold at 2s. 9d. will be 1s. 1½d., and a larger size will be introduced to sell at 2s. 9d.

MESSRS. INGRAM & ROYLE are now the sole consignees of Æsculap bitter water, the famous Hungarian aperient. They are also sole consignees for the Carlshad waters and salts. They inform us that they are about to revise their price-list on such lines as to place their country customers on equal terms with the London trade. Particulars of the new terms will be announced next week.

Trade Notes.

MR. H. MACAULEY, L.P.S.I., has rebuilt and refitted the Portadown Medical Hall. He still retains interest in the management of the Dundalk Medical Hall.

A NEW catalogue, quoting net, wholesale, and retail prices of proprietary medicines, druggists' sundries, and miscellaneous articles, has just been issued by Messrs. William Edwards & Son, of 157 Queen Victoria Street.

"MONTSERRAT."—We understand that the parties to the suit of Evans v. Smith, reported in this journal (February 26, 1887), have agreed to abandon the action. Messrs. Evans, Sons & Co. retain the use of the word "Montserrat" as their trade-mark, and the defendant undertakes not to use the word as descriptive of lime juice or its preparations.

ELABORATE SHOW-CASES.—We inspected the other day one of four show-cases which Messrs. Burroughs, Wellcome & Co. are getting made from the elaborately carved screen which was one of the chief decorative features of the Indian palace at the Colonial and Indian Exhibition, and which the firm purchased. In constructing the cases the designer has adapted the carved pillars for the frame, while the square panels, which resemble fret-work, but are really substantial lath-work, are used for panels at the bases of the cases and in union with carved work for canopies. In the case which was finished this week for the Adelaide Exhibition, square bases have been constructed for each pillar, and on the faces of these designs and wording appropriate to the leading specialities of the firm have been carved. This is the only European addition to what appears to be a truly Oriental structure; but it has been made in such a way that the harmony of the whole is not disturbed. Oriental inscriptions in black and gold upon the glazed sides of the case support this harmony. For the benefit of colonial pharmacists who may wish to air their linguistic knowledge when occasion requires, we may state that the inscriptions are in Arabic, Chinese, Hindustanee, and Sanskrit characters, and may be freely translated, "The progress of medicine and pharmacy." The case is so striking as a specimen of the carver's art, as well as for its handsome size, that it is certain to prove an attraction at the Adelaide Jubilee Exhibition.

MAIGNEN'S FILTERS.—The statutory general meeting of Maignen's Filtre Rapide and Anti Calcaire Company (Limited) was held on March 19, at the City Terminus Hotel. Mr. Littler, Q.C., who presided, stated that the directors had not yet had much time to organise and to develop the property, but the difficulty up to the present had been not so much to obtain business as to get the orders executed. Only on the previous day an order had come in for over 300 filters for Russia. They were also carrying on business with Buenos Ayres and other parts of South America, with France, Belgium, Italy, Holland, Australia, and South Africa. That was a tolerably large result of four months' work. They had entered into negotiations with the Government, and at their next meeting he hoped to be able to state that every department of the British Army had been supplied with the company's filters. The French Government had tried several experiments with them; they had also had applications from the Russian Government, and that morning orders were received for some trial filters for Her Majesty's Indian Army. The drinking water at Sheffield was extremely soft, with a slight amount of acid tendency, which had an effect on the lead pipes, and he had just seen that the borough analyst had been recommending the company's filters for removing the acid. In regard to that, part of their business, therefore, they had very good prospects, and it was to be remembered that so long as their filter held its own they would have a permanent income from the carbo-calcais. With reference to the anti-calcaire, another important part of their business, he had that morning heard one of the leading water engineers of the country express his belief that the process invented by Mr. Maignen would be of the greatest use for boiler purposes. The process had been tried by the Southwark and Vauxhall Water Company, who had found that during two years there had been no scaling, and hardly any cleaning had been required.

Legal Reports.

THE APOLLINARIS TRADE-MARK.—A motion was made on Wednesday before Mr. Justice North on the pending litigation with reference to this trade-mark. The Apollinaris Company having opposed the application of Mr. Hürter to register the word "Apollo" as a trade-mark for mineral waters, the motion stood over for Mr. Hürter to give notice of motion to rectify the register by removing the Apollinaris Company's trade-marks. Mr. Hürter being a foreigner, an order was made on him on February 28 to give security for costs, and Mr. Cozens Hardy, Q.C., now moved that security should be given within a week, or that the application should be dismissed. Mr. Inghen appeared for Mr. Hürter. His Lordship made the order asked for.

THE "PAIN KILLER" CASE.—On March 18, in the Chancery Division of the High Court of Justice, before Mr. Justice Kay, Mr. Chadwyck Healy moved on behalf of Mr. Arbor, trading under the style of Pen & Co., of Liverpool, that the trade-mark registered by Perry Davis & Co., viz., "Pain Killer," be struck off the register. Mr. Ince, Q.C., asked that the motion might stand over and come on with the action, on the ground that the motion was in the nature of an action, and sought to remove from the register a trade-mark of great value, having been used in this country for upwards of forty years. Mr. Justice Kay suggested that the motion should come on as a non-witness action. Mr. Healy asked in that case that the evidence might be used both for the motion and trial, and that both parties might be at liberty to adduce further evidence. Mr. Justice Kay refused to allow this course, for the reason that he would not hear the evidence first by affidavit and then *vis à vis*. Ultimately the motion was directed to stand over for a month, to enable Mr. Ince to obtain evidence of the user of the word "painkiller," and for a further fourteen days to enable Mr. Arbor to reply, after which the motion was to come on as a non-witness action, liberty to each side to apply in regard to the cross-examination of witnesses.

BANKRUPTCY REPORTS.

Re GEORGE GRAHAM FORSTER, 24 Compton Terrace, Islington, late of Durham, Surgeon-dentist.

THIS debtor applied on March 18, at the London Bankruptcy Court, to pass his public examination upon accounts showing liabilities 1,280*l.* 7*s.* 9*d.* and assets 24*l.* 1*s.* 8*d.* In the course of the examination the debtor stated that he commenced business with a deficiency, which accumulated as time went on. He took over the business of a Mr. Owen, which he was in hopes would turn out better than it did. He paid 500*l.* for the practice. The examination was ordered to be concluded.

Re CHARLES EDWARD ARMOND SEMPLE, 89 Goldhawk Road, Shepherd's Bush, and Torrington Square, Doctor of Medicine.

THE first meeting of creditors under the failure of this debtor was held at the London Bankruptcy Court on Wednesday, before Mr. Brougham, Assistant Receiver.

The following is a list of creditors:—

	£	s.	d.
Mrs. G. Weldon, Gower Street	1,020	0	0
B. H. Van Tromp, Essex Street, W.C. ..	350	0	0
Dr. D. Thomas, Park Lodge, Paddington ..	50	0	0
Dr. W. B. Stirling, Nottingham Place ..	25	0	0
Mrs. Hughes, Bloor Street, Spitalfields ..	15	0	0
Mr. Mills, Sadbury	11	16	0
— Beeson, Willesden	11	0	0
— Hunt, King Street, Hammersmith ..	10	18	6

The statement of affairs shows unsecured liabilities 1,876*l.* 6*s.* 8*d.*, and assets 76*l.* 1*s.*, and the debtor attributes his failure to the result of an action for damages brought against him by Mrs. Weldon. He appears to have commenced practising as a consulting physician in 1872. There was no quorum, and the debtor has been adjudged bankrupt. The Official Receiver will therefore wind up the proceedings.

Gazette.

PARTNERSHIPS DISSOLVED.

- LEE & LAMBERT, Sheffield, surgical instrument manufacturers.
 MARQUARDT, LEHZEN & Co., Fenchurch Street, City, and Calcutta, merchants and agents.
 NUTTER & PINCHIN, Palmerston Buildings, Bishopsgate Street Within, City, oil brokers.
 RAMAGE & Co., Acerington, paint and chemical manufacturers.

THE BANKRUPTCY ACT, 1883.

RECEIVING ORDERS.

- DODWORTH, ALBERT, Sheffield, palette knife manufacturer.
 HANCOCK, HENRY JOSEPH, East India Dock Road, and Preston's Road, Poplar, veterinary surgeon.
 WOODHALL, JOHN LEIGH, formerly of Neston, Cheshire, chemist and druggist.

FIRST MEETING AND PUBLIC EXAMINATION.

- MARLOR, MARY JANE (trading as J. Marlor), Lees, Ashton-under-Lyne, chemist and druggist. March 28, Official Receiver's offices, Manchester; April 28, Town Hall, Ashton-under-Lyne.

ADJUDICATION.

- DODWORTH, ALBERT, Sheffield, palette knife manufacturer.

NOTICES OF DIVIDENDS.

- DAVIDSON, HENRY, Barnsley, drysalter. First and final div. of 7s. April 4, 19, Regent Street, Barnsley.
 HUNT, CHARLES JARED, Southampton Street, Camberwell, soap manufacturer. First div. of 1s. 8d., any Wednesday, Mr. H. W. Figg's, 37 Upper Thames Street.

TRADE-MARKS APPLIED FOR.

THE *Trade Marks Journal* publishes the following notice:—"Any person who has good grounds for objection to the registration of any of the following marks may, within two months of the date of this journal, give notice in duplicate at the Patent Office, in the form 'J,' in the second schedule to the Trade Marks Rules, 1883, of opposition to such registration." The address of the Patent Office is Southampton Buildings, London, W.C.

From the "*Trade Marks Journal*," March 16 and 23, 1887.

- "AFRICAN OINTMENT," other wording and desert scene, on label; for an ointment. By M. Billinge, Hyde. 53,654.
 "ORCHID-BLOSSOM PERFUME," other wording and illustration, on label; for a perfume. By Burgoyne, Burdidges & Co., 12 Coleman Street, E.C. 57,155.
 "PRIMROSE CUP," and figure of a cup of primroses, on label; for a powder for producing a non-alcoholic drink. By M. A. Biller (trading as Wood & Co.), 27 Soho Square, W. 57,321.
 "STOP-ACHE," and other wording; for medicines. By S. Lawrence, Oban N.B. 58,267.
 "CAMPANA"; for chemicals and other substances of Classes 1, 2, 3, 4, 7, and 47. By J. Storer & Sons, 6 Billiter Avenue, E.C. 58,679-83.
 "MOELLER'S MALT COCOA," and other wording, on label; for substances used as food. By Moeller's Pure Malt Cocoa Manufacturing Company, Bradford. 58,717.
 "ENOLIOLOLORUM," and other wording, on label; for a harness preparation. By J. Talbot, Salisbury. 58,922.
 "EBONY," and figure of a shamrock; for perfumery. By A. Finlay, 35 Ann Street, Belfast. 59,000 and 59,006.
 "ACIRFA LIVINGSTONE BITTERS"; for a medicine. By W. E. Layton, 116 Stainsby Road, E.
 "CASTOR-OIL LOZENGES," on figure of a lozenge; for medicinal lozenges. By R. de B. Trotter, Perth. 59,495.

- "SPENCER'S MAGNETIC FILTERS," on figure of a magnet; "Spencer's Tripatent—the Magnetic Filter," on triangle; for domestic filters.
 "Spencer's Patent Magnetic Carbide," for a filtering medium. By the Magnetic Filter Company, 32A Euston Square, N.W. 59,502-4.
 "CRITERION" (59,697), "BALAKLAVA" (59,699), and "SEBASTAPOL" (59,701); for chemical substances for use in medicine and pharmacy. By Hodgson & Simpson, Wakefield.
 "JACOBI'S PLASTER," and figure of a cock, on oval label; for corn-plaster. By G. Jacobi, Hacking, near Vienna. 59,717.
 "EUCALINUM"; for chemical substances (Classes 2 and 9) and perfumery. By Rooke, Tompsitt & Co., 120 London Wall, E.C. 59,762-71.
 "BELFAST LINEN," on figure of a catheter; for catheters and bougies. By C. A. Chapman, 10 Stock Orchard Street, London. 59,779.
 "MITRE," also figure of a mitre; for chemical substances for use in medicine and pharmacy. By Allen & Hanburys, Plough Court, E.C. 59,952-3.
 "OIL OF EUCALYPTUS, OR RHEUMATIC OIL," and other wording, on fancy label; for a medicinal preparation. By J. Bosisto & Co., Richmond, Victoria. 59,959.
 "GUY'S TONIC," and other wording, on label; for a patent medicine. By T. Guy (trading as Guy's Tonic Company), 6 Sloane Square, Chelsea. 60,002.
 "BARRY'S PEARL CREAM"; for a toilet preparation. By G. C. Barclay (trading as Barclay & Co.), 44 Stone Street, New York. 60,087.
 "BOIS DES INDES"; for a perfume. By Patey & Co., 49 Scrutton Street, London. 60,101.
 "MAGNUM BONUM"; for perfumery. By Gray, Smith & Bennett, Wath-upon-Dearne. 60,110.
 "DR. FLEMING'S QUININE AND CAMPHOR PILLS," and "CONGREVE'S BALSAMIC ELIXIR"; for medicinal preparations. By G. T. Congreve, Coombe, Peckham, S.E. 60,147-8.
 "THE VINAIGRETTE STYLE," and illustration; for chemical substances of Class 3. By Burroughs, Wellcome & Co., Snow Hill Buildings, E.C. 60,150.
 Design consisting of two pestles crossed, and a mortar above and below; for chemical substances of Class 3. By J. A. Clark, 48 The Broadway, London Fields, Hackney, E.
 "CHLOROPHYLL," and autograph; for chemical substances (Class 1). By Martin Pells & Co., 63 Basinghall Street, London. 60,834.
 "FLORILINE"; for tooth-powder and liquid dentifrice. "Mexican Hair Renewer"; for a preparation for the hair. By The Anglo-American Drug Company, 33 Farringdon Road, London. 50,285-7.
 "GOODALL"; for non-alcoholic fruit essences, and other goods in Class 47. By Goodall, Backhouse & Co., Leeds. 56,888.
 "WILLIAM JAMIESON'S NOTED HARNESS COMPOSITION," and other wording, on label; for the same. By W. Jamieson, 9 Freeland Road, Bromley, Kent. 57,743.
 "DR. ROOKE'S RHEUMATIC LINIMENT," on label; for a liniment. By W. F. Rooke, M.D., Belle Vue Cottage, Scarborough. 58,970.
 "J. T. HOWE'S COMPOUND ESSENCE ELIXIR," and other wording; for a medicine. By J. T. Howe, 251 Kennington Road, Lambeth, S.E. 59,048.
 "THE SILVER CHURN BUTTER COLOURING," and other wording, on fancy label; for the same. By Oldfield, Pattinson & Co., Manchester. 59,143.
 "THE TAIBA TREE"; for scouts, sachets, &c. (Class 48). By A. N. Beck, Hastings. 59,558.
 Representation of archers and dragon, with motto; for medicinal preparations. By P. Harris & Co. (Lim.), Birmingham. 59,745.
 "DR. MARTIN'S PURE RUBBER BANDAGES"; for the same. By Dr. H. A. Martin & Son, Roxbury Station, Boston, Mass. 59,197.
 "LORELEI"; for perfumery (60,036), and "ETNA"; for essence of lemon (60,127). By Hirst, Brooke & Hirst, Leeds.
 "TRICOPHEROUS"; for a preparation for the hair. By E. C. Barclay, 44 Stone Street, New York. 60,088.

EUCALYPTUS FOR BOILER-CLEANING.—It is stated that extract of eucalyptus leaves is wonderfully efficacious in dissolving, or preventing the formation of, scale on boilers. When the extract is first put into the boilers it is about six weeks before any difference is apparent, but after that time it gradually comes off and no more scale forms.

NEW COMPANIES.

HARTMANN'S SANITARY WOOD WOOL COMPANY (LIMITED).—This company proposes to manufacture wood wool and wood wadding in all forms, and surgical or medical instruments, dressings and appliances, and to carry on the business of pharmaceutical and other chemists. It was registered with a capital of 65,000*l.* in 1*l.* shares. The first directors are: Mr. Wynn Westcott, M.B., Mr. J. T. Powell, M.D., Mr. J. White, Mr. J. D. Newton, Mr. A. Essinger, and Mr. A. Hartmann.

IMPERIAL SPRING OF GERMANY AND NATURAL MINERAL WATER COMPANY (LIMITED).—Capital, 50,000*l.* in 1*l.* shares. Object, to import mineral waters, and especially from the wells near Niedermending, in Rhenish Prussia, belonging to Henry Hurter, of Coblenz; also to deal in carbonic or other gas and products derived from mineral or medicinal waters. The first directors are J. T. Schipper, art publisher, King Street, Covent Garden; A. S. Norris, merchant, Shepherd's Bush; and E. W. Williams, contractor, East Tilbury. Remuneration, 250*l.* per annum, and a sum equal to one-tenth of the annual net profits after payment of 10 per cent. interest on the share capital.

JOSEPH MACK AUSTRIAN PINE PRODUCTS COMPANY (LIMITED).—Registered with a capital of 75,000*l.*, divided into 75,000 shares of 1*l.* each, to acquire the business of Mr. Joseph Mack, for the manufacture and sale of Austrian pine products, and the distilleries, fixtures, and premises where the same is carried on, including trade-marks, plant, and stock-in-trade used in the said business. The first subscribers are J. T. Preston, wholesale druggist, 81 Bishopsgate Street Within; J. N. Beach, merchant, 24 Hart Street, Bloomsbury; J. Collinson, soap manufacturer, Hearn Street, E.C.; T. T. Pratt, M.D., 12 Place Vendome, Paris; B. Ray, solicitor, 26 Place Vendome, Paris; J. F. Kershaw, solicitor, 19 Westbourne-terrace Road, W.; C. W. Berkeley, 104 Elm-park Gardens, S.W.; J. Thompson, 21 Oxford Road, Ealing. The first directors are J. Newton Beach, William Collinson, George Martell, Alfred Preston, and Nicholas Caruta. Remuneration, 800*l.*, with a further 500*l.* in any year in which the dividend shall exceed 5 per cent.

MARRIAGE.

[Notices of Marriages and Deaths are inserted free if sent with proper authentication.]

BROADBENT—ROBERTS.—On March 17, at Christ Church, Linthwaite, by the Rev. H. Edwards, vicar, assisted by the Rev. H. Rigby, curate, James Edward, son of the late Mr. David Broadbent, of Longwood, to Ann Jane, eldest daughter of Mr. John Roberts, chemist and druggist, Slaithwaite.

DEATHS.

DUCK.—At Gabalfa, Llandaff, on the 19th inst., Mr. Richard Weatherill Duck, chemist and druggist. The deceased was a partner in the firm of Treharne & Duck, chemists, Cardiff, and was only taken seriously ill on the night before his death.

DUNGER.—On March 8, Mr. George Dunger, chemist and druggist, St. Stephen's Street, Norwich. Aged 52. Mr. Dunger was formerly in business in St. Stephen's, Norwich, and during the last five years has lived at Heigham. A coroner's inquiry into the cause of his death was held, as he died rather suddenly, and according to the widow's evidence, had threatened, and at times pretended, to take poison. A business trouble had lately upset him very much, while he was also in the habit of losing a great deal of blood. Medical evidence, however, went to show that the death was due to chronic consumption, and the jury found a verdict of "Natural causes."

DUVERNOY.—On February 27, Mr. Louis Duvernoy, the head of the well-known German firm of wholesale druggists of the same name, died after a short illness at his residence at Stuttgart in Germany, at the age of 70.

EDSON.—On December 26, at Devonport, New Zealand, Mr. Joseph Leonard Edson, eldest son of Mr. John Edson,

chemist, Auckland. Aged 23. New Zealand has lost by his death one who bade fair to take a leading position in her pharmaceutical transactions. Mr. Edson, after passing the examination of the New Zealand Pharmacy Board, came to London about eighteen months ago in order to study at the School of Pharmacy. The severity of the English winter of 1885, tried his constitution, and interfered with his studies, but rest and the warm summer weather apparently restored him to health, and he was declared by his physician to be ready to resume his studies. However, he suffered a relapse and returned to New Zealand by the *Aorangi* in company with his father, who was then visiting England. He only lived a fortnight after reaching Auckland, for serious symptoms manifested themselves, which proved to be those of meningitis to which he succumbed after several days of unconsciousness. He was to have shortly entered into the management of his father's business.

JONES.—On March 21, Mr. J. P. Jones, Bridge Street, Aberayron, chemist and druggist. Aged 64.

SHEEHAN.—On March 14, suddenly, at 52 Woodstock Road, Finsbury Park, N., William Sheehan, junior, chemists' assistant. Aged 27. Deeply regretted. Deceased was the eldest son of Mr. Wm. Sheehan, representative of Messrs. Lloyd & Co., wholesale druggist, London.

WHITEHEAD.—On March 13, Mrs. Annie Whitehead, one of the annuitants on the Pharmaceutical Society's Benevolent Fund.

WYATT.—On March 9, Mr. Samuel Wyatt, chemist and druggist, late of Tottenham. Aged 62.

PATENTS.

The following Patents have become void through non-payment of renewal fees:—

1882.

- 4,523. J. Schweitzer. Malted farinaceous food.
- 4,591. F. Foster. Pasting labels on bottles, &c.
- 4,658. A. J. Boulton. Purification of alcohol, &c.
- 4,678. W. Weldon. Regenerating sulphur from alkali waste.
- 4,714. E. W. Parnell and another. Alkalies.
- 4,856. G. W. von Nawrocki. Lint.
- 4,949. B. Nickels. Compositions for washing sheep, &c.
- 4,987. A. J. Boulton. Recovering the salts contained in mineral waters.
- 4,999. L. A. V. Pellegrin. Apparatus for administration of alimentary fluids, &c.
- 5,021. J. Prosser. Combination of salicylic acid and glycerine for use in beverages.
- 5,109. E. Parr and another. Brushes for the cure of nervous complaints.
- 5,112. J. Imray. Separating glycerine from fatty matters.
- 5,153. C. M. Pielstickier. An antiseptic.
- 5,437. M. E. Pohl and another. Preservation of milk, &c.

1879.

- 3,774. H. Glover. Burning sulphur.
- 3,804. W. J. Menzies. Caustic soda, &c.
- 3,844. J. Imray. Hydrocyanic acid &c.
- 3,926. A. W. L. Reddie. Tablets for erasable writing.
- 3,935. H. Barrett. Bottles and stoppers.
- 4,218. J. F. N. Macay. Jeweller's rouge and cupric chloride.
- 4,253. A. J. Boulton. Magnesia.
- 4,262. T. J. Mullings. Extracting oil, &c., from wool, &c.
- 4,338. W. R. Lake. Dispensing, &c., gaseous liquids.

1881.

- 4,397. T. Twynam. Magnesia.
- 4,491. J. Imray. Soda.

"SANITAS."

CAUTION.—The fancy word "SANITAS" is our Registered Trade Mark.

THE BEST DISINFECTANT.

Non-Poisonous. Colourless. Gives no Stain. Fragrant.

Fluids; Oil; Emulsion; Insecticide; Powder; Sheep Dip; Hard, Soft, Animal, Brown Windsor, and Toilet Soaps; Soap Powder; "Sanitas" Disinfecting Jelly; Veterinary Ointment; Tooth Powder; Toilet Powder; Toilet Fluid; Furniture Cream Antiseptic Gauze; Fumigators.

GOLD MEDALS, Calcutta, 1884, and Paris, 1885.

Liberal Terms, New Show Cards and Bills to the Trade.

Sole Manufacturers, The "Sanitas" Co., Limited, Bethnal Green, E.
C. T. KINGZETT, F.I.C., F.C.S., Managing Director.

SLACK & BROWNLOW'S COMPRESSED CHARCOAL FILTERS.

See Advertisement, page 9.

Friedrichshall.

THE WELL-KNOWN APERIENT MINERAL WATER.

IMPORTANT NOTICE.

By reason of an improved method of caption, by which dilution is avoided, FRIEDRICHSHALL WATER will be found now to be of CONSIDERABLY GREATER STRENGTH and EFFICACY than heretofore.

The ordinary dose is a large wineglassful (4 ounces) taken fasting. Most efficacious and more acceptable to the palate when heated or mixed with an equal quantity of very hot water.

"After twenty years' use I appreciate it as highly as ever."

Professor VIRCHOW.

Of all Chemists and Mineral Water Dealers. [2]



TRADE MARK.

"MITRE" COUGH LOZENGES.

Sold by all the Wholesale Houses.

Manufactured for the Proprietors,
J. & G. HAWKE,
and supplied to the Trade by

ALLEN & HANBURYS,
LONDON.

WOODHALL SPA BROMO IODINE MINERAL WATER.

The strongest known Iodine Water in the World.

This remarkable Spa has been purchased by a Syndicate of gentlemen who have determined to make more widely known the extraordinary curative powers of this spring, which contains more Iodine and Bromine than any spring in Europe—

"And, we may safely add, in any part of the World."—*Dr. Cuffe, for many years late resident Physician at Woodhall Spa.*

An analysis of the water having been made in November, 1886, by Professor Wanklyn, M.R.C.S., corresponding member of the Royal Bavarian Academy of Sciences, Professor of Chemistry, a very important discovery has been made, viz., the presence of Free or Elementary Iodine.

Dr. Wanklyn says—"So far as I am aware, this is the first instance in which free Iodine has been found in appreciable quantity in a natural water. For many years the Woodhall Spa has been celebrated as a valuable remedy in skin diseases. The fact that it is a solution of free Iodine is interesting in this connection, and well worthy of the attention of the medical profession."

The Woodhall Bromo Iodine Water is now being bottled at the Spring by the Sole Agents, BROMLEY & CO., Chemists, 232 High Street, Lincoln, 5 & 6 The Grove, Buxton, and at Woodhall. All communications to be addressed to them at the Spa, Woodhall, Horncastle.

SCHWEPPE'S TABLE WATERS,

As Supplied to HER MAJESTY THE QUEEN.

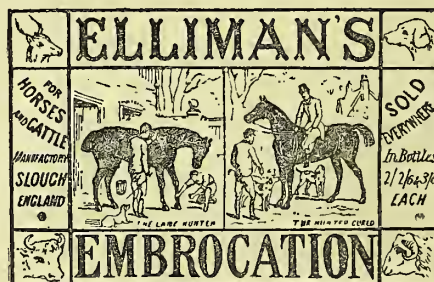
CARRIAGE PAID on Full and Empties.

SCHWEPPE'S DRY GINGER ALE.

51 Berners Street, LONDON,
AND AT
Liverpool, Bristol, Derby, Glasgow, Sydney, & New York.

SILICATED CARBON PATENT MOVABLE BLOCK FILTERS.

SEE ADVERTISEMENT, PAGE 8.



POWERFUL! HANDY!! SAFE!!!

CONDY'S POWDER

In Perforated Tins — Retail 1-lb. Tin, 1s.

Trade Price, 8s. per dozen, less usual discount. Through all Wholesale Houses.
CONDY & MITCHELL (Ld.), 67 & 68 Turnmill St., London, E.C.
SOLE PROPRIETORS OF CONDY'S FLUID.

SPECIAL NOTICE.

To the Chemical, Drug, and Allied Trades of Great Britain, the Colonies, and elsewhere.

W. LASCELLES-SCOTT begs to notify that his connection with "THE BRITISH AND COLONIAL DRUGGIST," as Editor and CONTRIBUTOR, **CEASES** from and after this date, and that he will no longer be, directly or indirectly, responsible for anything whatsoever which may appear in the pages of the above-named Journal.

W. L.S. will be pleased to hear from any correspondents, clients, and friends, at the undermentioned address—
February 28, 1887. FOREST GATE, ESSEX, ENGLAND.

Colonial, Indian, and Foreign Newspapers please copy.

THE PHARMACY ACTS AMENDMENT BILL.

THE Pharmaceutical Society's Curriculum Bill has now passed through all its stages in the House of Lords. Not one word of opposition, not even an inquiry as to its purport, was raised on any occasion when the Bill came before the House. One or two verbal amendments have been made at the suggestion of the Privy Council, but with that exception there has not been the slightest sign of interest in the provisions.

of the Bill manifested by any peer. Lord Milltown, an Irish peer, is allowed to push through a Bill which is to affect Great Britain only, and even he has evidently acquired only the most superficial acquaintance with his subject.

From a public point of view this system of making law is eminently unsatisfactory. The existence of the House of Lords is sometimes justified on the ground that in its calm judicial atmosphere new proposals can be more closely examined, and more carefully criticised, than in the more turbulent Lower House. In the case of the Pharmacy Bill this claim has not been justified. It may be safely asserted that not one peer in a hundred has taken the smallest trouble to consider its provisions, or would keep away from his dinner ten minutes to do so.

The Bill may or may not be a desirable one for the public. Such effect as it will have will be at least to the advantage of existing chemists and druggists. It gives to the Pharmaceutical Council power to make the admission to the business more difficult, and confers on chemists and druggists the exclusive right of training their successors. It introduces, in fact, a new principle into pharmaceutical legislation. Hitherto Parliament has only recognised the necessity of providing for the sufficient qualification of persons who shall sell poisons; now the House of Lords, at any rate, has admitted the principle that it is a national interest to have scientifically trained pharmacists.

We have no sort of quarrel with the decision. There is very much force in the contention on which this curriculum agitation is based, that mere examination will not ensure the soundness of a man's qualifications, and it must be to the advantage of all of us to bring a higher class of men into the ranks of pharmacy. But it is absurd to take these steps, to hedge about the admission to the trade, to strain out the gnat of the crammer, but at the same time to swallow the camel of the limited company. We are told that to have included a clause intended to amend the old Act in this respect would have imperilled the other object. But we fail to see how that would have hurt us, as the one is of scarcely any value without the other.

The chance of the Bill getting through the House of Commons this session is extremely slender, as anyone can judge who glances at the condition of public business. It will, however, be introduced, and its comparative unimportance and a lucky moment may suffice to get it through, if the redoubtable Dr. Tanner can be kept in ignorance of it. The announcement of a "block" by that authority will, however, almost certainly preclude all hope of getting it into the Statute-book this year.

PHYSICIANS AND FORMULARIES.

It is seldom that members of the medical profession, or their representatives, admit that they have never made a practical study of the art of prescribing. Their opportunities in this direction are not what they were in the days when "Bob Sawyers" had a chance of existence, and a period of articulated pupilage was the initiatory step into the noble profession. Then the young doctor learned to dispense, and in the course of time acquired sufficient knowledge of compounding to enable him in after-life to write prescriptions which gave the dispenser little trouble. The same method of training does not now obtain; there is a vast change in medicine itself; systems once supposed to be securely established are now forgotten; the solitary leech puddles in its slimy element, and exactitude of treatment and a system of diminished dosage are remarkable for their prominence. But we are not altogether happy on account of the improvement. Individualism or specialism has taken the place of

general principles; while diseases have increased in number deaths have decreased, thus proving the advance in methods of medical treatment; remedies have increased with them, and chemists have become more competent to dispense the remedies in a manner pleasing to the patient and satisfactory to the physician. But one result of the new condition of things is that, instead of all chemists being steadily employed in directly attending to the wishes of physicians, the work has become concentrated into the hands of a few, who are eager to anticipate therapeutic requirements and quick to discern the changeableness of the invalid's taste. "Factory-made preparations" are the result. There always have been such preparations, but in the last generation each man made his own and thought it no sin. Now that firms are the makers the custom is regarded by some as a thing to be put down. It was for these reasons that [the American Pharmaceutical Association in 1885, and the British Pharmaceutical Conference in 1886, appointed committees to draft formularies, which should contain, in addition to recipes otherwise useful to the chemist, trustworthy directions for making imitations of, or preparations similar to, "factory-made articles." The American committee being the first appointed is furthest ahead, and some months ago published a formulary upon which we have already commented. How will physicians receive such suggestive compilations? is a not unimportant question. Chemists may make as many of such preparations as they like, but if physicians do not prescribe them the labour is lost. So far, the only medical criticism we have seen of the result of the American committee's labours is contained in a report by a committee of the Detroit Academy of Medicine. This committee does not appear to have a high opinion of the knowledge of prescribing and materia medica possessed by medical practitioners. As an instance, the committee speaks of some physicians who "go on year after year prescribing some mixture of repulsive appearance and abominable taste until a philanthropically inclined manufacturer comes to their aid and offers them a substitute having identical therapeutic properties, but compounded with such skill as to be attractive in appearance and positively pleasant to take. The new combination is accepted gratefully, and prescribed by some name which secures to its originator a monopoly in its preparation—a reward certainly due to him for his 'philanthropic' labours." Others in course of time have adopted the same pushing methods, and now, according to this committee, the evil has grown to gigantic proportions, and may only be successfully combatted by "a mutual understanding between physicians and pharmacists, the former consenting to accept an equivalent, providing it is really such, for the formulas he has been in the habit of prescribing, the latter engaging to make a thorough practical study of the art of elegant pharmacy, and to devise a limited number of combinations such as physicians really have occasion to use." This, so far, is a recognition of the formulary principle, and it is interesting to contrast with it what the committee think of the draft of the National Formulary itself.

In the first place the committee object to anything cyclopædic in form; to formulae for arsenical soaps, battery solutions, *et hoc genus omne*; they exclude, somewhat doubtfully, preparations which are meant for certain disorders, and decidedly they would exclude "remedies introduced as substitutes for proprietary preparations." There is a saving clause to this, which is: "which themselves were originally introduced under false pretences." Without this clause we fear that the formulary would have dwindled down to nothing; but the clause almost admits everything, for there are few manufacturers who are not sincere in what they say of their products. The committee is decidedly restrictive in

tendency, and urges that pharmacists should endeavour to prevent the multiplication of preparations made according to private formulæ. It is for that reason mainly that the committee is opposed to the admission of formulæ for imitations of proprietary preparations, for thereby the seal of approval would be set upon them. This is really the kernel of the nut, and if we may take it as being of a kind with what will obtain in other medical quarters, we fear that pharmacists and physicians are not quite in touch on this matter, and that some other scheme will have to be devised for exterminating "factory-made articles." As far as can be gathered, the B.P.C. Formulary Committee is expected to supply recipes for such preparations, but there is a probability that only formulæ for preparations like Parrish's syrup and Easton's syrup, rather than for Brown's chlorodyne and Fellows's syrup will be forthcoming at present. But although all that was asked for by the members of the Conference is given, will that stop the enterprise of the makers of specialities, give enterprise to those who now have it not, or alter the opinions of those who have a conscientious objection to imitating the produce of another man's brains? We want the puff for the formulary preparations; that seems indispensable if specialities are to be displaced, for here, if anywhere, *Similia similibus curantur*. This we cannot expect of the committee, which is composed of practical pharmacists, who have their own businesses to attend to; indeed, it is surprising that they are able to give the time to a work which must entail much laboratory practice. But if the committee does not succeed in brightening the commercial prospects of the drug trade, they are certain to shed considerable light on practical pharmaceutical difficulties, and this will receive due acknowledgement.

PATENT LAW.

DURING the early part of 1886 a Committee, consisting of Lords Herschell and Crawford, Baron de Worms, Sir B. Samuelson, Sir R. Webster, Q.C., and Mr. C. T. D. Acland, M.P., made a careful investigation, by the examination of competent witnesses, of some points in which the new Patents Act has not given satisfaction. The report of this Committee, which has lately appeared, recommends certain alterations in the law, the chief of which is the abolition of the system introduced into the new Act, in the interest of inventors, of examining all specifications sent in, with a view of preventing the patenting of an invention in which the inventor has been anticipated. Under the old Act the Patent Office received fees for and carried through patents regardless of whether they were the subject of previous specifications. But while the Act of 1883 was being discussed it was urged by Sir B. Samuelson, who spoke from an inventor's point of view, that it was unfair for the Patent Office to receive a specification, and take fees for it, while they had in the office a specification for an exactly similar invention, filed a little earlier, which would render the new one invalid. Consequently sub-section 5 of section 7 of the new Act was introduced, authorising the appointment of a staff of examiners, whose duty it was to keep notes of all unsealed patents and compare with these all new applications. Although the object thus sought was a laudable one, it is found that the operation of the enactment has been unsuccessful, and rather mischievous than otherwise. Complaints have been made on the one side that notices are frequently given under the Act when the applications are not really for identical inventions, and on the other that the office has frequently omitted to give notice when the inventions were in fact identical. Two provisional specifications may disclose apparently the same invention, and yet, when the complete specifications are

received, it may appear from the fuller and more precise descriptions embodied in them that there are really two distinct inventions, each properly the subject-matter of a patent. The cost to the office of making these examinations amounts to some 3,000*l.* or 4,000*l.* a year. All things considered, the Committee report that the system had better be abandoned, though they suggest that some arrangement might be made in favour of inventors who find they have been anticipated, by giving them the right to abandon their patents within, say, two months of sealing, and reclaiming their fees.

Another subject reported on by the Committee is the proposal emanating from the Institute of Patent Agents, advocating the creation of a roll of patent agents, who alone should be permitted to deal as intermediaries with the Patent Office. The Committee very properly decline to recommend any such exclusive rights, which would prevent an inventor in the country from being represented by a friend in London on perhaps a quite untechnical point; but they point out that it might be of public advantage to provide a means of securing a roll of patent agents consisting of duly qualified persons, the admission to which should be possible and easy for all persons so qualified. And they suggest that any person should be subject to a penalty who, not being on the roll, should assume the title of patent agent.

The report of the Committee is of much interest to patentees, and may be obtained from Messrs. Eyre & Spottiswoode, or through any bookseller. It is published at 8½*d.*

LIQUOR BISMUTHI.

WE crave Mr. Schacht's indulgence for the use of a title (for brevity's sake) which he first applied to a preparation invented many years ago by him, and which we now use to designate the pharmacopœial homologue of it—*Liquor bismuthi et ammonii citratis*. One estimable virtue which Mr. Schacht's preparation has always possessed is that it was perfected before it was placed on the market, so that it has undergone no change since. This cannot be said of the official liquor. The 1867 formula yielded a preparation differing exceedingly from Mr. Schacht's in physical characteristics, more especially in taste, and also in mildness of action, owing to the fact that no attempt was made to free it from the nitric acid used to dissolve the bismuth. This defect was remedied in the Pharmacopœia of 1885 by directing the liquor to be prepared from citrate of bismuth, solution of ammonia being used as a solvent. This formula, apparently, has given results which are all that could be desired, the principal objection against it being based on a side issue, viz., the preparation of the citrate of bismuth. The least that can be said of the official method for preparing this salt is that it is a clumsy method; by far too much nitric acid is used, and the details of the process generally are objectionable. The method gave great trouble to manufacturers, but, as was to be expected, they have surmounted the difficulties, and now place on the market a citrate of remarkable purity. One characteristic of the new liquor must have been observed by practical pharmacists, namely, its liability to change. Change is in two directions, viz., in deposition of bismuth and in the development of fungoid growths. Both are independent of each other. If ammonia be added until a perfectly neutral solution is obtained, the solution keeps clear for several days, but as soon as any part of the incrustation which forms round the neck of the bottle drops into its contents, the solution gradually becomes milky, and ultimately deposits a thick precipitate of bismuth citrate. The deposition is not prevented by adding excess of citrate of ammonia, but an excess of free ammonia, sufficient to be felt

by the nose, serves admirably in preventing the change. In this respect, therefore, the Pharmacopœia directions require modification, so that ammonia may be added "until the salt is just dissolved" and the solution has a distinct ammoniacal odour. If the liquor is made from the scaled ammonio-bismuth citrate a little ammonia should also be added to it. We learn from several sources that a slight excess of ammonia is found to be necessary for the preservation of the liquor.

Regarding the fungoid growth, we find that its formation is due to the presence of nitric acid in the bismuth salt. The citrate requires a great deal of washing before it can be freed from nitrate, and as, after a certain point, the salt appears to become basic and partly insoluble, there is a temptation to leave off washing when nitric acid, free or combined, comes away in traces. It is these traces in the citrate, however, which afford a medium of growth for the fungi. In presence of free ammonia, a slimy, mucous-like formation is deposited in the solution, although in some cases, especially in presence of a small excess of ammonium citrate, the growth retains the globular tufted form which it at first presents, and floats in the liquid. In neutral solutions *penicillium glaucum* is also formed. In both cases the liquor acquires a repugnant odour. In presence of a large excess of free ammonia, the addition of 20 grains of ammonium citrate to each ounce of the liquor prevents the fungoid growth; but with a slight excess of free ammonia only, the ammonium citrate has no effect. The alkaline citrate is not, therefore, a remedy, but by using pure bismuth citrate the liquor is unobjectionable on this score. For various reasons we would suggest the addition to the liquor of a little ammonium citrate—say 16 grains to the ounce. It helps to retain the brightness of the solution, and when it is prescribed with carbonates, it prevents the precipitation of the bismuth as carbonate. Some time ago a correspondent drew attention to the different appearances of a mixture containing bismuth solution and fluid magnesia. Prepared with the 1867 solution a clear mixture was obtained; but with the 1885 solution the mixture contained a copious precipitate of bismuth carbonate. It was the excess of ammonium citrate which prevented the precipitate in the former case.

While writing on this subject, we may point out that the combination of soluble cerium salts (citrate, lactate, or tartrate) with this solution is protected by patent. Some time ago we gave a formula for the preparation of a Liquor bismuthi et cerii in ignorance of the existing patent; and as our formula has been used with excellent results, we think it necessary that this explanation should be made in order to prevent any action on the part of the patentee.

The Imperial Institute. The scientific and other societies which are getting up subscription lists for the Imperial Institute are adopting a device for making each list look big which borders on the ridiculous, if not on the untrue. Fellows or members of each society are advised that if they have already subscribed through some other channel, their names can appear on each list for the one sum they have subscribed. An asterisk is affixed to the name in such a case, and for his one contribution the donor can get advertisements of his name in the lists of all the societies to which he belongs. The several chemical societies have united in a circular and in the collection of a common fund, and have already issued an early list of subscriptions amounting to nearly 600%, of which, however, 370% appears to have gone "through some other channel." It may be a guide to some hesitating members of the Pharmaceutical Society if we mention that the amount credited to their President, and duly-starred, is 10%.

Pharmaceutical Chaff.

"Few persons have any idea of the labour involved in searching for grains of wheat among the enormous mass of chaff that now does duty for pharmaceutical literature." Thus groaneth our old-established, not to say aged, contemporary, the *Pharmaceutical Journal*. There are reasons for believing that some portions of THE CHEMIST AND DRUGGIST are included in this irreverent allusion. "It cannot be denied," continues our esteemed relative, "that a large proportion of the matter appearing in many English and foreign journals is essentially of an ephemeral character;" but the amiable critic kindly, though somewhat pompously, adds, "This is hardly to be considered a subject for reproach, as it was never intended to be otherwise." This benignant toleration on the part of our self-constituted censor is particularly amusing when we observe the character of the material which is evidently regarded as the reverse of ephemeral at Bloomsbury Square. It is not a vain compliment to say that the readers of the *Pharmaceutical Journal* turn for solid instruction almost mechanically to the editorial articles of that publication when satiated or disgusted with the ephemerality or frivolity of other literature. Those who did so last week were not disappointed. In the central position, and in leaded type, they found the firm ground which they may have unsuccessfully sought elsewhere. There was displayed as the classic event of the week, enshrined in pages which evidently regard themselves as destined to immortality—Mr. Carteighe's speech at an assistants' dinner!

* *

Manganese in Bleaching Powder.

In a paper read by Mr. Alexander Shand before the North British branch of the Pharmaceutical Society last week, it was stated, as the result of experiments, that chlorinated lime as found in the market contains manganese in minute quantity, and the author threw out the hint that this was due to manganese compounds being carried over with the chlorine from the stills in which the hydrochloric acid and black oxide of manganese are heated. In Deacon's patent process for the manufacture of bleaching powder no manganese is used for producing the chlorine, the acid being split up by means of a copper salt in specially constructed towers. The chlorine from these towers is conveyed to Deacon's lime chambers without coming into contact with manganese. It is obvious, therefore, that the bleaching powder manufactured by this process should not come within Mr. Shand's theory. We have written to Messrs. Gaskell, Deacon & Co. of Widnes, about the matter, and they reply through Dr. Hurter as follows:—"There is manganese contained in all bleaching powders we have yet examined, manufactured both by the 'Weldon' as well as by the 'Deacon' process. If the powders are made from the same lime, they usually contain the same amount (traces) of manganese. Our conclusion is that the manganese is derived from the limestone, in which it can also be detected, and not from the stills, else the Deacon powder would contain less manganese. We do not see the practical importance of the matter. For most purposes a cold solution of bleaching powder is used, and this when settled contains no manganese. It is only when the solution of bleaching powder is boiled together with the insoluble lime that the pink colouration due to permanganate is rendered visible. When the clear solution is boiled by itself, no pink colouration will appear."

* *

Chemical Formulae.

Some one has said that chemical formulæ and equations are the shorthand of chemical science. Certainly no system of phonography can so quickly or accurately express in written form the full meaning of such an expression as $\text{Na}_2\text{CO}_3 + \text{H}_2\text{SO}_4 = \text{Na}_2\text{SO}_4 + \text{H}_2\text{O} + \text{CO}_2$. A formula conveys a great deal to the chemist; he knows that "NaCl" means not only that one atom of sodium is united with one of chlorine to form chloride of sodium, but also that definite, constant weights of these elements exist in the molecule of the compound. Na has the indelible stamp of 23 upon it in his mind's eye, and Cl has its 35.5. The young chemist enamoured of this simplicity of expression, and conscious, perhaps, of a sense of superiority in his ability to express his ideas in cabalistic style, begins to ask at the dinner table for such things as H_2O and NaCl, and thinks it funny. But when similar ex-

pressions occur in the speeches and papers of trained chemists, the humour is gone and the style is inelegant. Such expressions as "it gave off CO_2 when treated with an acid," and "it smelt powerfully of H_2S ," are an improper use of chemical formulae. They may be pardonable in a private note-book, but in published papers there is no excuse for them. We notice that a few chemists of repute who have written books adopt this objectionable mode of expression where it is not required, and in so doing set a bad example to young chemists who are apt to look upon it as the proper style. Such men as Attfield and Tilden, among chemists best known to pharmacists, always give a substance its full title. CO_2 with them is carbonic acid gas or carbonic anhydride, and H_2S is sulphuretted hydrogen or hydric sulphide. There are no secrets in science, therefore writers should always express their ideas in the most simple and most generally intelligible form. A formula occurring in text for any other reason than an explanatory one is as unpardonable as "evy" for every, and "blv" for believe.

* *

Arsenic in Chloroform. Dr. L. Scholvien recently reported to the *Apoth. Zeit.* a case of unusual contamination of chloroform. On agitating some of the sample with water he found that the water gave a precipitate with nitrate of silver, and he at once suspected chlorine, but further examination showed that this conjecture was erroneous, and that arsenic was the contaminant. Various tests were applied, including Marsh's, all of which proved conclusively that arsenic was present. An estimation was made of the proportion, 10 kilogrammes of the chloroform being used, which was shaken with potash solution, the alkaline layer being afterwards separated, evaporated, acidulated with hydrochloric acid, and the arsenic precipitated with sulphuretted hydrogen. This was afterwards oxidised with nitric acid, and the arsenic precipitated as magnesium-ammonium arseniate, 0.41 gramme of that salt being obtained. The question of how the chloroform happened to contain arsenic is not easy to answer. If the chlorinated lime was arsenical it might be supposed that an organic compound containing arsenic would be formed, but then on redistilling such a chloroform the arsenical compound would be distilled, and not remain in the residue, as was the case in Dr. Scholvien's experiments. The arsenic might also be due to the use of impure sulphuric acid, which seems most probable, but as yet it has not been proved by direct experiments that in making chloroform with an arsenical acid the arsenic would distil over.

Practical Notes and Formulae.

GREASE-PROOF BOXES.

A CORRESPONDENT of the *Druggists' Circular* recommends a varnish made of white shellac, 4 oz., alcohol, 8 fl. oz. Powder the shellac as fine as possible, place it and the alcohol in a wide-mouth bottle, which place in hot water and stir occasionally until dissolved. Two coats are put on inside and out with a stiff brush.

EXTRACTUM STIGMATÆ MAIDIS FLUIDUM.

MR. JOHN H. PARKER, as the result of experiments with green corn silk, has concluded that the best menstruum is composed of 12 oz. of alcohol, 4 oz. of water, with a little glycerine. To make the extract, macerate 16 oz. of green corn silk for one week in 12 oz. of alcohol, press and pack in a percolator. Add 4 oz. of water to the pressed extract, and proceed to percolate in the usual manner. Reserve the first 14 oz., and continue the percolation with diluted alcohol until the drug is exhausted or till about 24 oz. have been obtained. Add 2 oz. of glycerine and evaporate to about 2 oz., and add this to the reserved portion, and filter if necessary. Green corn silk contains about 50 per cent. of extractive matter.—*Pharm. Record.*

BAY RUM PREPARATIONS.

THE use of bay rum is constantly increasing, and its applications are very numerous. Among the more com-

mon services which it renders is that of a dressing for the hair, application after shaving, addition to the bath, &c. The genuine rum is imported into this country, sometimes in large quantities in bulk, and were chemists to make a demand for it, it could, no doubt, be placed in their hands at a comparatively cheap rate. The following formula gives a rum similar to the imported article:—

Oil of bay (best)	..	..	..	..	6 fl. drs.
Oil of pimento	..	..	..	..	25 drops
Acetic ether	..	..	..	..	1 fl. dr.
Deodorised alcohol (S.V.R.)	..	..	..	..	1 gal.
New England (or Jamaica) rum	..	..	..	..	1 "

Mix and allow to stand for three weeks, occasionally agitating it. Then filter.

BAY RUM HAIR TONIC.

Bay rum (imitation)	..	..	..	..	5 pints
Glycerine	..	..	..	..	16 fl. oz.
Tincture of cantharides	..	..	..	..	8 "
" " quillaia	..	..	..	..	8 "
Rose water	..	..	..	..	8 "
Orange-flower water	..	..	..	..	8 "

Mix, and filter if necessary.

BAY RUM "AFTER SHAVE."

Bay rum	..	..	..	..	3 pints
Glycerine	..	..	..	..	$\frac{1}{2}$ "
Extract of violets	..	..	..	..	$\frac{1}{2}$ fl. oz.
Rose water	..	..	..	..	$\frac{1}{2}$ pint

Mix, and filter if necessary.

This combination also makes a splendid lotion for chapped hands and face, and is excellent to use after the bath.

GLYCERINE CREAM.

Oil of sweet almonds	..	..	..	..	8 fl. oz.
Spermaceti	..	..	..	..	3 oz.
White wax	..	..	..	..	1 "
Borax	..	..	..	..	$\frac{1}{2}$ "
Glycerine	..	..	..	..	3 fl. oz.
Orange-flower water	..	..	..	..	1 "
Oil of neroli	..	..	..	..	5 drops
Oil of rose	..	..	..	..	3 "

Melt the wax, spermaceti, and oil of sweet almonds together; dissolve the borax in the orange-flower water and glycerine previously mixed; pour the solution, a little at a time, into the melted mixture, stirring the preparation without ceasing, until all the solution has been fully incorporated and a homogeneous product results; finally add the oils.

Dispense in porcelain or glass jars. Of all the preparations of glycerine those most in demand are glycerine cream and glycerine lotion; and these, when put up for stock or for the trade, should be attractively labelled and neatly wrapped, in accordance with suggestions previously given. Glycerine preparations thus presented to the public are always saleable, and are among the most profitable specialties of the pharmacy; and where uniformity of product and style is maintained, the sale of such articles increases from season to season.

Another preparation which enjoys a good sale, in the autumn and winter months especially, and one which produces grateful relief is a properly made

GLYCERINE LIP SALVE.

Glycerine cream (above formula)	..	..	..	..	4 oz.
Boric acid	..	..	..	..	$\frac{1}{2}$ "
Carmine	..	..	..	..	4 grs.

Mix thoroughly and dispense in screw-top porcelain jars or in specially-made metal boxes.—After *Druggists' Circular*.

LE PAGE'S LIQUID GLUE is, according to a correspondent of the *Druggists' Circular*, manufactured from salt fish skins, about two thousand tons being used annually for this purpose. The cod and cusk skins furnish the most glue, those of hake and haddock containing but little. The following is supposed to be the *modus operandi*:—The skins are first desalted and then boiled with water to dissolve the glue: this is strained and evaporated to the proper consistency. There is no difficulty about the glue remaining liquid when it is prepared in this manner. Our contemporary suggests that the glue may be kept liquid by boric acid, which serves the double purpose of solvent and antiseptic.



AND

Literary Notes.

Drugs and Medicines of North America. By J. U. and C. G. Lloyd. Cincinnati.

WE have received the second and third numbers of the second volume of this work; the first number was noticed on December 25 last. In the parts before us the account of the magnolias is concluded, and there are articles on *Asimina triloba* and *Lobelia inflata*, while a commencement of *L. syphilitica* is made.

The most noteworthy part of the article on the magnolias is a report on an examination of the bark of *M. glauca*. From this Mr. J. U. Lloyd, the chemical editor, has isolated three bitter resins, a volatile oil, and a glucoside which resembled the magnolin of Proctor in appearance, but differing from it in reactions, and probably, therefore, a new body. In endeavouring to obtain an alkaloid from the bark, Mr. Lloyd isolated a white crystalline substance soluble in alcohol, ether, and chloroform, but sparingly so in water, benzol, and carbon bisulphide. This body is remarkable for its splendid fluorescence, the alcohol solution being a beautiful azure blue, while the solution in dilute alkali is of an intense deep blue. The body is not alkaloidal, and is regarded as a product and not as an educt, every attempt to reproduce it having failed.

Asimina triloba is a shrub of the order Anonaceae, which is found most commonly in the States bordering the Ohio river, and in Tennessee and Arkansas. It is known as "Papaw," from a fancied resemblance between its fruit and that of the *Carica papaya*. The fruit of this papaw is a most unwholesome one in the unripe state, but when ripe the fleshy portion may be, and is, freely eaten. The flowers are remarkable for their brown-coloured petals—a somewhat rare characteristic in the vegetable kingdom. The authors have made a chemical examination of the plant, and find all parts of it to contain a volatile oil, in the bark an uncrystallisable bitter principle, and in the seeds a crystalline alkaloid which they name asimine, the hydrochlorate of which is easily prepared. It gives a carmine red colour with nitric acid, which quickly changes to a deep dark purple. The initial reaction is somewhat similar to that of morphine, but with ordinary observation no one could confuse the one with the other. Physiological tests with asimine by Professor Bartholow have led him to conclude that it is an anodyne agent.

The essay on *Lobelia inflata*, which occupies the rest of these numbers, can only be regarded as one of the most valuable contributions to the literature of the subject. The authors point out that Bentley and Trimen's illustration of the pod of *Lobelia inflata* is inaccurate, as it represents the pod equal at the base, and large at the apex tapering to the base, which is not the case. The fruit is sub-globular, compressed laterally, and unequal at the base, the cell opposite the stem being longer at the base than the inside cell. Amongst the historical notes which are incorporated in this article are one on the drug itself, and another on Samuel Thomson, the founder of the Thomsonian system of medical treatment, the followers of which have been known as "Lobelia doctors," "beaters," "steamers," and "sweaters." Thomson began his experiments with lobelia when he was a boy at school, and continued them uninterruptedly until he devoted his whole time to curing the sick, which was before his thirtieth year. He was not a trained physician, but that he studied medicine from books as well as contemporary medical literature there seems no doubt. From the first he was bitterly opposed by the medical profession, and this opposition culminated in his arrest for murder in the year 1809. The evidence against him was, however, insufficient for his conviction, and he was acquitted. Thomson's theory was "that all diseases are the effect of one general cause, and may be removed by one general remedy applied in a great many forms as medicine." His treatment resembled "Coffinism," warmth being what was aimed at in the administration of remedies.

Mr. J. U. Lloyd has re-examined lobelia herb and seed chemically, and has succeeded in getting the alkaloidal active principle, lobeline, absolutely free from crystals, and he has also failed to crystallise its salts. He shows that the statements as to its crystalline nature have been due to the presence of a crystalline substance, inflatin, which is colourless, odourless, tasteless, and does not unite with acids or alkalies. Mr. Lloyd believes that it is either a stearoptene or a vegetable wax. Amongst other interesting points which the investigation has cleared up are the alleged volatility of lobeline (its non-volatility is conclusively proved) and the existence of Enders's *Lobelacrin*, which Mr. Lloyd proves to have been a mixture of lobelia substances soluble in alcohol and chloroform, but not in water, and therefore a very complex mixture. It will be seen from these references to the work that its interest and value are well maintained.

Proceedings of the Chemists' Assistants' Association. Containing Papers and Abstracts of Papers read at its Meetings during the Session 1885-86. London. 1886. Pp. 144. 8vo. Price 2s. 6d.

WHEN speaking of the success of this Association the other evening, the President of the Pharmaceutical Society stated that the best proof of its importance, as well as the value of its work, was given in these proceedings. With this statement no one who has examined the volume will disagree. Started in 1877, the Association has struggled on through many difficulties, which are inevitable with the indoor system still prevalent in English pharmacy, and which are more pronounced in the metropolis than elsewhere, until now in its tenth year its condition is so flourishing that collapse at any time would be a disgrace to London pharmacy. This we do not anticipate, for each session sees new workers added, and the work itself kept up with remarkable continuity.

The nature of the Proceedings is indicated in the title which we have quoted, and we are not called upon to pronounce upon the merit of the papers, most of which have already appeared in this and another journal devoted to pharmacy. The volume has been carefully edited, and all who wish the Association well should secure a copy of it from the publisher, Mr. W. I. Richardson, 4 Great Queen Street, Lincoln's Inn Fields.

Manual of Assaying Gold, Silver, Copper, and Lead Ores. By Walter Lee Brown, B.Sc. Chicago: E. H. Sargent & Co., 1886. 12mo. Pp. 488, 2 pl. \$2.50.

THIS is a second edition of a work which has met with much acceptance by assayers. It is divided into two parts and an appendix. In the first part the author describes and illustrates the apparatus and reagents which are used in assaying. The chapter on apparatus is a very valuable one to the assayer, more especially as the author has not scrupled to describe and give his opinion upon specialties—such as Battersea crucibles and furnaces, and Fletcher's gas-furnaces, of British, and the Lipey and Bosworth crushers, of American manufacture. There is nothing so important to the assayer—especially if his experience has been gained in a single laboratory—than such information as Mr. Brown gives regarding the apparatus employed by various chemists.

The chapters on reagents and testing of the same are written in a very common-sense manner, perhaps in too minute detail for the man of experience, but certainly in an instructive manner for the student and laboratory help, for whom, mainly, they are written. Part II, which is devoted to assaying of the ores, contains descriptions of the most approved methods, while special methods are treated in the first chapter of the Appendix, and the rest of the volume is devoted to tables of the ores found in the United States; list of books on assaying; plan for laboratory, and other useful information of that kind. The chapters on assaying are characterised by simplicity of diction and method; the author inculcates care and exactness in such a manner that the tyro cannot fail to appreciate the importance of these virtues in the work of assaying. The methods have been carefully selected, and are illustrated by numerous examples.

The work is well printed in clear and bold type, and is altogether a credit to the publishers.

AT THE COUNTER.

"ECTECK ESSECK."—While perusing your column "At the Counter," the above was handed to me with the demand, "What is't a gill?"—W. B.

* *

SHE POWDERED.—A few evenings ago, says the Buffalo Express, a fine-looking, well-dressed negro, as black as black can be, entered a drug store and inquired semi-confidentially of the clerk: "Do you keep lampblack?" "I can give you some," was the reply; "how much do you want?" "Well, you see, sah—ah—is it very nice? I would like a little, sah, in a pretty box—like these," pointing at boxes containing toilet articles in the showcases. "Well," said the clerk dubiously, "I dunno; what do you want it for?" "For de toilet, sah; for my wife—she powders, sah!"

* *

W. J. F. (Bristol) sends us the following little collection:—"Peny worth pamphantad oile, peny worth clerad lime." "1 penyorth yellow Persilicam." "2d. of Camphorated Clorcfurme."—"1 Peneyworth of ludam 1 Pary groyk 2 of Anntey-money wilne, 12 pund of treack." "Quiserin" [vaseline intended]. "Please sir Give me Medicinc I bee bad all last week but I feel so bad to day head to feet like sore I think veins bad as well as eyes & feet just as thin feel sore all over & so I feel thinner and weaker I am 50 next birth."

* *

A MANCHESTER correspondent sends a collection of orders, but we find nothing very novel among them:—"Saphra," "glissren," "compound of crisp powder" (P. glycyrrh. co.), and "Burgey M. pitch" are the best specimens.

* *

FROM Devonshire we receive a large batch, including some difficult ones:—"Pure uniter of assis," for instance, does not readily suggest nitric acid; "keyan lawsenger" cannot be mistaken, and "milk of sufler" is instantly solved; "carperated cairn" resolves itself into carbonate of iron after a brief consideration, and "bitter hawlway" would offer no difficulty if it were not for the caligraphy; "ack a fortess" is written with the confidence of one who knows; but some one who wanted some hiera picra was evidently very diffident and very anxious to spell the word correctly. He began with "hipika," and rubbed that attempt out with his finger; then started with "hikp—," but hesitated and tried again, adopting finally "hikapiaka." Our friends need not trouble to send us any more variations on Ipecacuanha unless one of them should ever by chance get an order for it spelt correctly.

* *

FROM Stamford a number of specimens of queer spelling reach us; of these "mhyyr," "oil of guniper," "gum go gi akehan," and "cold lime" are the most unusual.

* *

THE "Modern Athens" provides a regular supply of these curiosities. From the last batch we select "termaganate of potash," "flour of macknesie," and "cloor de lime."

* *

A FAMILIAR old recipe, which had evidently been phonetically reported by someone who had "derived benefit" to a mate in affliction, is sent to us by Mr. A. J. Palethorpe, Derby:—

2 pot hass
2 q bub in powder
2 sect niter
2 Bol piver.

* *

WHAT'S NOT IN A NAME?—Little boy (School Board again) to chemist: Please I want a penn'orth of methyl-phenyl-otolylpyrrolin-carboxylic acid for father's chilblain, and three-aporth of amidomethamidoperchloro-methylcanidine for baby's cold. [*Collapse of chemist.*]

SUGGESTIVE.—A pharmaceutical chemist in Reading prints his address on his prescription envelopes, "near the cemetery gates."

* *

"SIT on my knees, eh?" is Little Breeche's rendering of citrate of magnesia.

* *

THIS is from Digby, Nova Scotia:—A native of the Green Isle came in and inquired, "Have ye any inemen?" He was asked what he wanted it for, and being told that there were many kinds of ointment, he replied, "Well, I spoase they'd be mix'd."

* *

THE *National Druggist* states that some of the physicians of Chicago are using a new form of prescription blank that is somewhat novel, but quite appropriate, now that so much is said there about registered and unregistered pharmacists. The new blanks are headed with the following lines:—

A REGISTERED PHARMACIST WILL PLEASE PUT UP

For M.....

These two lines are followed by the blank space for writing the prescription. "It is not to be supposed," remarks our contemporary, "that an unregistered pharmacist, who is in the habit of violating the law by compounding medicines, will refuse to put up such a prescription."

* *

THE following recipe for some kind of ointment, written on a piece of paper dated Pembroke, July 6, 1776, recently came to light in Hanover:—"A hanful of Safent & hanful of Capnet & hanful of Shumok Rutes and the Bignest of a neg of moten taler & Bignest of neg of beswax and hanful of alder Bark & Pound of Hogfat."

* *

A LAD at Easton, Pennsylvania, entered a drug-store, bottle in hand, and said he wanted ten cents' worth of "armakymony." The druggist told him to repeat the word, and said, "Don't you mean arnica, or ammonia?" "I dunno," was the reply. "What is it for?" asks druggist. "Can't tell," said boy, starting slowly out. When near the door a bright idea illumined him, and he turned and asked druggist: "If your wife hit you on the head with a chair-leg, which of them medicines would you git to take the swellin' down?" "Arnica." "Then fill her in ten cents' worth," replied the boy; and he gazed lovingly at a big stick of licorice as the arnica was being bottled.

* *

PUNCTUATE.—A child of nine summers hastily entered a crowded pharmacy, and exclaimed in a loud tone, "Mother wants to p'ison the dorg three penorth o' soothing syrup please."

* *

PHARMACY IN YORKSHIRE.—Mr. Alexander Ellis, Skelton, sends us the original of the following order, and suggests that along with the curriculum means should be taken for testing the acquaintance of young men with the Pharmacopœia when translated into local dialects:—"Six Peneth of open you can give it him it Will Be alrite it is for that old Women What all us have it."

ALEXANDER MACARTHUR has set out in a canvas boat from Winnipeg to discover the North Pole. He has provided himself with provisions, ammunition, and a drug clerk. Just what he wants with the latter is hard to determine. Perhaps he intends to open an apothecary's shop on the shores of the open polar sea. But, whatever may be his object, we are inclined to think that Mr. Macarthur is wise in taking the drug clerk with him. The introduction of "ice-cold soda-water" among the Esquimaux would be a distinct advance in the progress of civilisation. And then, again, is it not time that the North Pole advertised some patent medicine? If Mr. Macarthur's drug clerk does his duty in the present expedition he may make his name immortal.—*N. Y. World.*

Trade Report.

Note to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., March 24.

THE week has been a very quiet one, so far as the Mincing markets are concerned, and, unfortunately, a good many articles are lower in value since the date of our last report, while only a few have improved. The drug sales were extremely heavy, including 17 catalogues, and it seemed doubtful whether they would be got through to-day, but there was a general reluctance to continue the auctions to-morrow, and they were finally disposed of about 5.30 P.M. Before entering upon his sale Mr. Peat (Lewis & Peat) proposed to fix the next drug sales for this day three weeks, in order to avoid holding a sale on the day before Good Friday. Mr. Richard Barron, however, suggested an interval of four weeks instead of three. This was seconded by Mr. Edward Horner and carried *nem. con.* The next drug sales will therefore be held on April 21 next. *Quinine* has again declined $\frac{1}{2}$ d. per oz., *Cardamoms*, *Buchu*, *Gum benjamin*, and several minor articles are cheaper, but *Cape aloes*, *Musk*, *Beeswax* and *Vanilla* have improved. Among drysalteries, *Shellac* seems at last to have touched bottom, but a collapse in *Gambier* has occurred. *White pepper* and fine *Cochin ginger* are dearer, but *Black pepper* has lost ground. *Soda crystals*, *Carbolic acid*, and *Citric acid* are lower, but *Soda nitrate* has again improved. A further rise in the *Opium* market is reported from Smyrna.

STASSFURT reports state that an increase in the demand for *kieserite* is expected shortly, but the quantities obtainable at Stassfurt are so large that only by a greatly increased consumption can the available quantity be got rid of. The manufacture of chromate of sodium, which at one time threatened to supersede chromate of potassium, has been greatly reduced of late. At a recent general meeting of German chloride of potash manufacturers it was reported that sales during January and February this year had been very strong, and stocks at the moment did not amount to 80,000 ctr. Scotland had particularly developed as a consumer, chloride of potash appearing to be entirely replacing Bengal saltpetre. The demand from America is also continually increasing.

ACID (CARBOLIC) has been decidedly weaker for some days, owing to a cessation in the demand, which had been forced beyond its warranted limits by speculation. There has been comparatively little doing in the article, pure in 1-lb. bottles being held at 1s. 7d. to 1s. 8d. per lb. In the middle of this week there were again a good many inquiries, some of them for important quantities, for future delivery.

ACID (CITRIC) is now offered at 1s. 8 $\frac{3}{4}$ d. per lb. on the spot.

ALOES.—*Cape* are about 2s. dearer, good hard bright selling at 28s.; fair to good, 25s. to 26s. 6d.; inferior, partly drossy to very ordinary mixed with sand, 17s. to 10s. per cwt.; and one lot 2s. There is a good supply of *Cape aloes* here, but it includes only a few lots of the better grades. The *Curaçao* variety is rather neglected, and only 55 boxes drossy stuff found purchasers at 10s. to 15s. per cwt.; good bright liver is held at 100s. to 105s. per cwt. *Zanzibar* aloes, good hard fairly bright, are worth from 7l. 10s. to 8l. per cwt.

AMBERGRIS.—Four tins were shown and bought in over value, the quality not being very fine.

AMMONIA.—*Carbonate* and *Sal ammoniac* unchanged. *Sulphate* is slightly lower, viz., 12l. 5s. in London, and 12l. 6s. 3d. at Hull. The market is very steady, but up to the present the Continent responds only to a very moderate extent, and buyers there will only come forward for what is absolutely required for immediate shipment, and it would appear as if the great bulk of the requirements for this season were fairly well provided for.

ANISE.—There has been a fairly brisk trade in this article at the recent quotations of 24s. 6d. to 25s. 6d. for *Russian*, and 50s. for *Spanish*. A small parcel *Chilian* anise was bought in at 27s. 6d. in the drug sales, and 36 bags spurious *Japanese* also remained unsold. In China the price of star anise is said to be advancing owing to the smallness of arrivals from the interior.

ANNATTO.—Good bright Ceylon seed still sells at 3 $\frac{1}{4}$ d. to 3 $\frac{3}{4}$ d. per lb., and is in good supply. *Paste*, 1 $\frac{1}{2}$ d. to 3 $\frac{3}{4}$ d. per lb. A consignment of 52 baskets very fine *Pará roll* is held at 1s. 9d. per lb., which does not seem dear.

ARECA NUTS.—Seven packages, partly split and mouldy, sold at 10s. 6d. per cwt.

ARGOL is from 3s. to 4s. cheaper, and sells at 83s. for good dusty grey to 62s. for very ordinary ditto. Five casks dark red Messina argol remained unsold.

BALSAMS.—Some arrivals of *Copaiba* are reported this week. The article remains very steady at 1s. 8d. for fair quality. *Peruvian* neglected at 4s. 6d. per lb., small private sales have taken place, but everything offered at to-day's auctions was bought in. Good *Storax* held at 52s. 6d. to 55s. per cwt. *Tolu* remains quiet.

BLEACHING POWDER is still quoted at 8l. 15s. to 9l. per ton, and orders are passing at those rates.

BORAX is not so firm, but prices show no change.

BROMINE has made no further advance; but the position of this article, and of all bromides, is thought to be very firm. *Bromide of Potass.* is quoted at 1s. 6d. per lb.

BUCHU.—About 70 bales, the bulk very good fresh green leaves, free from stalk or flowers, were placed in sale to-day. Holders offered freely, and prices show a heavy decline, 6d. to 6 $\frac{1}{2}$ d. per lb. being accepted for good leaves, and 5 $\frac{1}{2}$ d. to 5 $\frac{3}{4}$ d. for fair quality.

CALUMBA.—There is still a good supply in our market, although only a limited number of packages is brought forward in public sale. The demand is stagnant, fine yellow root was bought in at 47s. 6d. per cwt. nominally.

CAMPHOR.—Under date of February 1, it is reported from Hong-Kong that prices of Formosa camphor were rising owing to bareness of the market, but Japan camphor was plentiful. Our market is unchanged, both for *crude* and *refined*.

CANARY SEED has experienced a decline all round, the drop, which is heaviest for bold grained Dutch seed, varying from 1s. to 4s. The reduction in value is ascribed to the anxiety on the part of holders in Holland to realise their stocks. They consequently swamped the London market, while the New York market has been influenced by the shipment of 7,000 bales Smyrna seed to that port. The following are the present quotations:—Good *Turkish*, 50s. to 52s. 6d.; *Barbary*, 53s. to 54s.; *Dutch*—small grained, 51s. to 52s., bold, 51s. to 56s. per 464 lbs. ex warehouse. Finest *Spanish* seed realises still up to 64s., while ordinary *Spanish* is neglected.

CANELLA ALBA.—Only 27 bales ordinary very broken quill appeared in the drug sales and were bought in at 21s.

CANNABIS INDICA is quiet. Dusty and stalky tops are worth from 2 $\frac{1}{2}$ d. to 3d. per lb., but sales are few.

CANTHARIDES.—No change can be reported. *Russian* are held at 6s. 6d. to 7s. 3d. per lb., and *Chinese* at 3s. 6d. per lb. Two more cases of the useless red and black flies were offered; the flies were very mouldy and found no purchaser.

CARAWAY SEED is offering at lower prices, which, however, fail to attract purchasers to any considerable extent, and our stock is accumulating. *Dutch* seed offers at 35s. to

37s. per cwt., *Russian* at 30s., and *Mogadore* at 26s. to 28s. per cwt.

CARDAMOMS.—A very heavy quantity was offered, and it was generally anticipated that the importers by thus pressing forward supplies would spoil the position of this article. These fears were partly realised, and a decline of from 4d. to 6d. per lb. was established, although nearly the whole of the supply was disposed of, and the American and Continental demand showed no abatement. The following prices were paid:—*Ceylon-Malabar*, good plump pale, 3s. 1d. to 3s. 2d.; palish plump to long slightly specky, 2s. 9d. to 2s. 10d.; medium to bold plump, partly warty, 2s. 4d. to 2s. 7d.; small to medium palish plump, 2s. 2d.; ditto yellow and brown mixed, 1s. 11d.; longish yellow, good appearance, 1s. 10d.; yellow, shrivelled and specky, 1s. 8d. to 1s. 9d.; dull brown split, 1s. 3d. to 1s. 5d.; ordinary to low, 1s. 2d. down to 8d. per lb. *Mangalore*, fine bold pale smooth long, 3s. 6d.; small ditto, 2s. 6d.; specky and small, 1s. 11d. *Aleppy character*, good greenish, 1s. 10d. to ordinary 1s. *Bombay*, pale bleached, but shelly, 1s. 11d. to 2s.; brown, 1s. 7d.; small, 1s. 4d. *Seed*, 1s. 9d. to 1s. 10d. per lb. The exports from Ceylon from October 1 to February 24 are given as follows:—Season 1886-7, 148,147 lbs.; season 1885-6, 112,990 lbs.; season 1884-5, 63,903 lbs. About one-third of the exports are shipped to India and the East, the remaining two-thirds nearly all to this country.

CASCARILLA.—A consignment of 46 bales, including some very good silvery quill, was taken out, no mention being made of the price required.

CASSIA LIGNEA is somewhat steadier, up to 25s. 6d. having been paid for a parcel of old import. We hear from Canton that the Chinese authorities have it in contemplation to considerably reduce the local taxes which are now levied on the article in the interior. If this intention should be carried into effect, a considerable reduction in the price of the article may be looked for.

CHAMOMILES.—Five casks small, stalky and dusty wild German flowers sold at 22s. per cwt.

CHIRETTA.—Nine bales ordinary weed sold at 1½d. per lb.

CINCHONA.—According to the latest mail advices a decided improvement has occurred on the Colombo market, where the unit has made an advance of about ¼d. The shipments of bark from Ceylon now exceed those of the previous season, and there is every probability that they will continue to grow proportionately. The figures from October 1 to February 24 are:—1886-7, 6,291,948 lbs.; 1885-6, 5,882,029 lbs.; 1884-5, 3,881,262 lbs. It would seem as if the estimate of 1,433,250 lbs. as the probable crop of Java cinchona in 1887, which was recently given by the British consul at Batavia, does not include the estimated Government crop, which is 715,000 lbs. In the drug sales to-day 98 out of 123 packages offered, flat, hard yellow *Calisaya* imported from Arica and Valparaiso sold at very high prices, 2s. 1d. to 2s. 2d. for sound, and 1s. 11d. to 7d. for first-class to badly damaged. A heavy consignment of good *Lova* and *Huanoco* quill also sold at full rates, 1s. 3d. to 2s. 3d. per lb. for the former.

CINCHONA ALKALOIDS.—*Sulphate of Quinine.*—The official makers' quotations still remain unaltered, and manufacturers do not seem anxious to offer. We hear, however, that 2s. 7d. per oz. has been paid for a second-hand parcel of Howard's brand in bottles, which is only 1d. below the makers' price, although to-day offers of Howard's brand in bottles were made at 2s. 6½d. second hand. In the drug sales to-day 4,000 oz. Whiffen's brand were offered; 3,000 of these sold at 1s. 10½d. per oz., a fresh decline of ½d. Of 2,000 oz. Pelletier's in bottles, 500 were sold at 2s. 2d. per oz. *Sulphate of Quinidine.*—10,000 oz. "Brunswick" brand in tins were offered. A bid of 4d. per oz. for the whole parcel was refused. The holder suggested 5½d., and finally bought in the whole at 6d. per oz. *Sulphate of Cinchonidine.*—25,000 oz. "Brunswick" found no purchasers; 2½d. per oz. was refused, and the whole bought in at 4d. It is understood that 2½d. per oz. would have been accepted.

COCA LEAVES.—No parcels of any importance were offered at the public sales.

COCAINE is somewhat easier and second-hand holders of

German in bulk offer a trifle under 1s. per gramme. Bottles are held at 1s. 1d. per gramme.

COCULUS INDICUS.—Forty bags from Cochin bought in at 11s. per cwt., much above value.

COLOCYNTH without inquiry. Twenty-eight packages *Turkey* all bought in, nominally at 1s. 2d. per lb. for good pale apples, mixed with fragments, and rather seedy.

COWHAGE.—One case from Bombay was withdrawn, no price being mentioned.

CUBEBS.—In the drug sales 2 cases bold brown berries were sold at 17l. 7s. 6d. to 17l. 10s. per cwt., while 14l. was refused for 12 bags shrivelled, mouldy, and very stalky berries. The article appears rather weaker, but many parties here being interested in keeping prices at a high level it is not considered likely that it will experience any great change in value, although two shipments came to hand since last week. The Singapore market is said to be very firm, and the supplies there reduced to a minimum. In our last report a paragraph referring to cubebs was inadvertently headed "Cutch."

CUMIN SEED has made no further advance, but holders are very firm at 45s. for *Maltese*, 26s. for *Greck*, and 27s. for *East Indian* seed.

CUTCH.—A consignment of no less than 1,300 tons, the heaviest ever received by any single vessel, has just come to hand at Liverpool, and buyers are awaiting the landing of this shipment before operating to any large extent. It is said that 400 tons of the consignment will be transhipped directly to America. *RS* slabs have been sold at 27s. 6d. per cwt.

CUTTLE FISH.—Ten cases good whitish sold at 3¼d. per lb.

DRAGON'S BLOOD.—Only two cases sold, good bright, slightly seedy cake at 9l. 15s. Dull brickly slabs in reed bought in at 4l.

ERGOT OF RYE quiet. The quotation for good *Spanish* ergot is 1s. to 1s. 1d. per lb.

FENNEL SEED.—Although there has been a fairly brisk demand recently, yet values fail to improve; 26s. is still quoted for *German* seed, and 21s. to 22s. for *East Indian*.

FENUGREEK SEED has been very firm, and sold up to 8s. 9d. per cwt., but this improvement may not last, although our stock is lessening.

GALANGAL.—57 bales good bright root bought in at 7s. 6d. per cwt., but loss would be accepted.

GALLS.—*China* unchanged. The stock at Shanghai was estimated at 700 cases on February 1. A good quantity of *Turkey* galls was offered in the auctions, but no sales were effected.

GAMBIER.—Some importers having shown extreme anxiety to sell, the market has collapsed. 21s. per cwt. has been accepted for *block*, to arrive per March-April steamer. There are no further sellers at that figure, but no more than 21s. 6d. per cwt. can be obtained for *block* on the spot. *Cubes* sold at 32s. for slightly blocky Singapore, and 30s. for blocky *Malacca*.

GAMBOGE very firm, and held at 11l. 7s. 6d. for rather dark coloured and very broken pipe. Fine qualities are scarce.

GENTIAN ROOT remains firm. Eleven bales rather ordinary *Indian* root sold at 26s. per cwt. to-day.

GINGER.—Supplies of *Cochin* on a very large scale are now placed on our market, about 2,000 packages being offered in Wednesday's drug sales. Fine qualities, both cut and rough, are about 1s. dearer, but inferior and middling grades show a decline of about 1s. 6d. per cwt. New *Jamaica* is also about 1s. cheaper.

GUINEA GRAINS in fair supply. Good quality is worth 17s. to 17s. 6d., being slightly easier.

GUM AMMONIACUM.—Seventy-one cases were offered to-day, but mostly bought in, offers not reaching recent valuations. Good pale grain and drop bought in at 50s. per cwt. nominally; fair block sold at 26s. 6d.; drossy and seedy ditto, at 21s. 6d., and fair partly blocky siftings, at 10s. per cwt.

GUM ANIMI is very quiet; only a small proportion of the 45 cases *Zanzibar* offered in the last auctions were quitted at a decline of 20s. per cwt.; pale and amber sorts, partly weak, at 10l. 12s. 6d. to 12l.; fair bean and pea, 6l. 10s.; dark pickings, 5l.; siftings, 34s.; pale mixed copal, 80s. *Bombay* sold at 17s. to 80s. for dark pickings to medium mixed; rough red *Madagascar* at 50s. to 61s. *Demerara* gum sold at full rates, viz., 5l. 2s. 6d. to 8l. for small to bold yellow and red mixed, and 60s. to 90s. for drossy rough and weak.

GUM BENJAMIN.—Large quantities were offered, including all varieties and qualities. Only a few cases were sold at steady prices, holders not showing much disposition to accept lower values. *Sumatra*, dull grey, almondy centres, false packed corners, 7l. 10s.; yellow centres, very false packed, 6l. 15s.; low, false packed, with very few almonds, 5l. 5s. per cwt.

GUM COPAL is in good demand and sold at an advance of 3s. for good *Manilla*. Altogether about 400 packages were offered in the recent sale, the greater part of which found purchasers at 84s. to 85s. per cwt. for very fine pale scraped; 54s. to 70s. for bold but dark to fine pale selected; 41s. for inferior dark; chips, 24s. to 37s.; pickings, 25s. to 26s.; yellow, soft and blocky, 15s. 6d. to 18s. per cwt.

GUM DAMAR steady at 95s. to 96s. for fine pale *Batavia*.

GUM ELEMI.—35 cases fine white *Manilla* realised 35s. per cwt., a very good price.

GUM KAURI.—In the last public sales about 950 cases were offered, about one fourth of which sold mostly at a decline of 1s. per cwt., but in some instances at previous rates. The following prices were obtained: Fine, hard, pale, scraped, 12l.; good bold scraped amber, 84s. to 89s.; ordinary to fair brownish, partly scraped, 70s. to 77s. 7d.; rough and pickings at from 64s. down to 44s. per cwt.; chips realised from 40s. to 65s. per cwt. for dark to very fine, and low dark dust 4s. per cwt. It is thought that the exports of Kauri gum from Auckland will exceed those of the last season by about 30,000l. or 40,000l. value, notwithstanding the fact that supplies from the Kauri forests are not coming forward freely.

GUM MASTIC.—Out of 12 cases offered, one case fair pale sold at 3s. per lb.

GUM MYRRH steady. 100s. per cwt. is still the price for good pale *Aden* sorts, only dull pickings sold at the auctions, 35s. being the price paid.

GUM OLIBANUM.—A large quantity, principally new crop gum, was again offered at the last public sales. Prices for drop must be quoted 2s. lower, 44s. per cwt. being accepted for fair, but somewhat badly garbled yellow and red drop; garbling and siftings, on the other hand, are quite 1s. dearer, viz. 15s. to 16s. 6d. per cwt. for middling to fair garblings, and 13s. to 14s. for siftings. Several parcels of *Aden* gum were bought in at 60s. to 62s. 6d. per cwt. nominally.

GUM SANDARAC is cheaper and neglected. Sales "without reserve" were made at 55s. to 62s. per cwt. for dull and dusty to fair. Pickings realised 22s. to 23s. per cwt.

GUM TRAGACANTH.—Of 15 cases placed in sale, 13 were disposed of; good pale second at 9l. 10s., dull darkish ditto at 7l. 10s., good pinkish thirds at 7l. 2s. 6d., and fair yellow thirds at 6l. 15s.

HEMPSEED is lifeless, and must be quoted about 1s. lower since our last report, viz. good *Russian* at 22s. per 336 lbs., and fine *Dutch* at 37s. per imperial quarter. Supplies are still flowing in.

HONEY.—Our market is quiet, some dull *Chilian* sold at 17s. 6d. per cwt. Twenty casks *New Zealand* bought in. Reports from California state that the last season has been an unfavourable one for honey farmers on the Pacific coast, for, although the quality of the product was generally good, the prices obtained on the Western markets did not recoup the farmer for his outlay. The demand from Europe was very restricted, and nearly all the honey had to be consumed in the States. The 1886 crop is estimated at 2,000 tons of extraeted and 500 tons of comb honey, while the entire crop of 1885 was only 700 tons. Of the very large crop of 1884, large quantities were carried over, so that in 1885 there was actually a larger supply of honey than in 1886. The receipts at San Francisco by steamer and rail

were as follows as compared with the two preceding years: 1884, 1,600,000 lbs.; 1885, 2,000,000 lbs.; 1886, 2,500,000 lbs. Exports were as follows: England, 3,475 cases; France, 588 cases; other countries, 1,200 cases; total, 5,263 cases, to which should be added about 2,000 cases shipped overland *via* New York and New Orleans, which is a very large quantity, and may be ascribed to the low rates of freight prevailing on the Pacific railroad, and the small crop in the Western States. It is said that the prospects for the coming crop have been much improved by abundant rainfall, which will undoubtedly be a late one, and most producers claim that this year's crop can only be half its usual size.

IODINE is unchanged at 9d. per oz., while the *iodides* are very firmly held and in good demand. Makers are not anxious to book orders of any magnitude for forward delivery.

IPECACUANHA.—An arrival of 22 serons has taken place *via* New York. This parcel was offered, along with 11 packages of old import, in to-day's drug sales. Purchasers hold back, and so do owners, the latter maintaining that it is now certain that no further arrivals will take place before the end of May. The entire supply, with the doubtful exception of 2 serons good short stout root, for which 6s. per lb. appears to have been paid, was consequently bought in.

ISINGLASS.—At the periodical auctions 318 packages East India went off quietly at irregular prices; *Bombay*, new tongue at previous rates; old ditto, about 2d. lower; bladder-pipe, 1d. to 2d. lower, except for fine; cake at steady rates to a slight decline. *Penang* leaf sold steadily; tongue brought extreme rates for fine, and the previous value for other kinds; cake, steady. *Saigon*, unchanged. *Brazil*, dull, at a decline of 1d. per lb.

JALAP.—Twelve bales *Vera Cruz* sold at 6d. to 6½d. per lb.

KOLA NUTS.—Two boxes good bold nuts sold at 5d. per lb.

LIME (ACETATE) is not in much demand for immediate delivery, consumers being well provided. Prices are therefore rather lower, say 10l. 5s. to 11l. 5s. per ton, according to place of delivery.

LINSEED.—Most varieties are decidedly cheaper, Canadian as much as 4s., and Indian from 6d. to 1s. Fine *Dutch* linseed alone maintains its price at 50s.; *Canadian* is quoted 46s. to 47s.; *Bessarabian* at 47s.; and 1 *Sicilian* at 50s. per 424 lbs.; while *Bombay* is held at 40s. 6d., and *Calcutta* at 39s. per 416 lbs.

LIQUORICE ROOT.—One hundred and fifty-six bales were offered, of which 64 sold at 5s. to 8s. 9d. per cwt. for inferior quality. Good bold decorticated root bought in at 40s. nominally.

MUSK is again dearer. Two caddies very fine bold *Tonquin* pods, thin blue skins, sold at 90s., an advance of about 2s. 6d. per oz. Several bottles *Nepaul* "grain musk" sold at 22s. to 36s. per oz. One thin fine *Assam* in thin shaven pods (this variety is very seldom met with in pod) realised 51s. per oz. Some China *cabardine* bought in. A curiosity was shown in the shape of 8 pairs of musk-deer tusks, articles which have never yet been offered in the drug sales. They were taken out; if sold privately, we shall probably see large consignments of these tusks in future.

MUSK SEED held at 5d. for fair *East Indian*.

MYRTLE WAX.—One case sold at 50s. per cwt.

NUX VOMICA.—Seventy-eight bags good *Calicut* sold at 10s. 6d. to 11s. 3d. per cwt.

OILS (ESSENTIAL).—*Star anise* firm. We hear from China that the stock at Macao is exhausted, and nothing is known as regards future arrivals. *Cajaput* held at 3s. to 3s. 2d. *Cassia* unchanged. The stock in China is rather heavy, notwithstanding which the market is firm, and holders are not disposed to give way. *Cinnamon* is worth from 1s. 4d. to 1s. 6d. for fair to good. Of *Cinnamon leaf* 11 cases were offered at the drug sales, but nothing was done. *Citronella* quiet, although holders appear rather firmer and demand a fraction more. The Ceylon exports from October 1 to February 24 were: 1886-87, 3,246,856 oz.; 1885-86, 3,388,065 oz.; 1884-85, 2,275,328 oz. There has been an advance of about 4d. per lb. in the price of French *Lavender*, but *Lemon* and other Italian essential oils are quiet at the recent reduction. Two bottles oil of *Marjoram*

were shown in the drug sales, but taken out without quotation. *Neroli* is quoted about 8*d.* per oz. dearer in the South of France; the best quality is worth about 14*s.* here. Ten cases fine *Nutmeg* oil (Fisher's brand) were bought in. *Peppermint* oil is quiet, American HGH at 16*s.* per lb., although we have heard of even lower quotations, and Japanese at 4*s.* 9*d.* to 5*s.* per lb. *Menthol crystals* are slightly lower, 4*s.* 9*d.* to 5*s.* per lb. would buy fair quality, although Cocking's brand is quoted higher than that.

OIL (CASTOR) is quoted dearer. Good *Italian* is firmly held at 4½*d.* per lb. (4*d.* being refused), and first *Calcutta* at 4*d.* per lb. In Liverpool prices have also advanced, 2½*d.* being now asked for good seconds *Calcutta* on the spot; to arrive 2½½*d.* per lb. has been paid.

OIL (COCONUT) remains quiet, at 25*l.* 10*s.* to 26*l.* 10*s.* for *Ceylon*, according to packing; 33*l.* to 36*l.* for ordinary to very fine *Cochin*; and 26*l.* 10*s.* to 27*l.* for *Mauritius*. On March 1 the Colombo market was extremely quiet, and holders were compelled to accept reduced rates in order to sell. The shipments from October 1 to February 24 amounted in 1886-87 to 120,274 cwt., against 109,643 cwt. in 1885-86. Great Britain and the United States take the bulk of the exports, India, France, Germany, almost sharing the remainder.

OIL (COD-LIVER).—Latest advices from Norway state that the weather has been calmer recently, but even in the most favourable case the loss sustained during the first part of the season will be difficult to get over, especially so as the Lofoden fishing closes on April 2. Arrivals are taking place daily from the Continent, but it is said that the principal English buyers have only bought from hand to mouth thus far, and that there is every prospect of a further advance. In the drug sales 43 casks were offered, 10 of which, of nondescript quality, sold at 3*s.* 9*d.* to 3*s.* 11*d.* per gallon. New *Newfoundland* oil was bought in at 2*s.* 3*d.* to 2*s.* 6*d.* per gallon.

OIL (OLIVE).—Our markets are quiet at unchanged rates. Recent advices from Italy confirm the reports previously received from that quarter in regard to the olive crop of the present season. In some of the southern provinces, where the crop has been exceptionally abundant, the oil-mills have not yet completed their work. The average quality of the Riviera oils is very low, and the prices paid correspond with it. These Riviera oils, however, do not rule the market, having been more or less superseded by the oils from Southern Italy. Oils of inferior quality are very plentiful this year. The sale of new Bari oil meets with some difficulty, as this variety sometimes has a slight bitter flavour, which it only loses in the course of a few months. The new Calabrian oil, and particularly the variety known as Basilicata, is very much inquired for this year, being of excellent taste and colour, and fit for immediate consumption. The superiority of this year's Basilicata oil may be ascribed to the fact that the crop was so abundant as to cause a delay in the pressing, which enabled the fruit to attain full maturity.

The Naples market remains neglected, but an improvement is shortly expected on account of anticipated purchases for shipment to Russia.

OILS (VARIOUS).—*Cottonseed* oil is quiet, although prices are about maintained, refined on the spot being held at 18*l.* 5*s.* to 19*l.* 5*s.* in London, and crude at 16*l.* 2*s.* 6*d.* to 16*l.* 5*s.* *Linseed* oil unchanged, at 20*l.* 2*s.* 6*d.* to 20*l.* 5*s.* landed. *Palm* oil neglected. *Rape* oil has declined a fraction, but closes steadily at 20*l.* 15*s.* to 21*l.* for English brown, and 22*l.* 5*s.* to 22*l.* 10*s.* for refined. A slight improvement has occurred in *Petroleum* since last week, and the market closes firm with an advancing tendency, viz. 5*d.* to 5½*d.* for American on the spot, according to brand, and 5*d.* to 5½*d.* for Russian. *Turpentine* is also 3*d.* dearer on the spot.

OPIMUM.—Prices have again advanced on the Smyrna market, and it is thought that a further rise will shortly occur. The Constantinople market holds a stock of 300 cases, and is extremely firm.

ORRIS ROOT.—Three casks good white fragments sold at 20*s.* per cwt.

PEREIRA BRAVA.—One bale genuine root, which has been offered in sale time and again, was bought in at 105*s.* per cwt., nominally.

PATCHOULY LEAVES.—1*s.* 1*d.* per lb. is demanded for 5 bales dark but not very stalky leaves. Small parcels arrive from time to time.

PEPPER (BLACK) is again cheaper, at 7½*d.* for *Aleppy*, 7*d.* for good *Penang*, and 6*d.* for ordinary dusty *Atcheen*.

PEPPER (WHITE).—A firmer feeling prevails for white pepper, caused, it is said, by the recent adulteration prosecutions in different parts of the country; and, under the stimulus of the increased inquiry, Singapore white pepper has made a decided advance, although speculators are endeavouring to bring down values by placing considerable quantities upon the market. *Penang* at the end of last week sold at 11½*d.* per lb., while fine *Singapore* in this week's sales 12½*d.* per lb.

QUILLAYA.—Considerable quantities arrived from Valparaiso at the end of last week.

QUINCE SEEDS.—A few barrels good seed sold at 6½*d.* per lb.

RAPESEED is much inquired for, especially the better grades. *English* seed is worth 45*s.* to 47*s.* per 424 lbs. Crushing rapeseed is unchanged.

RHUBARB.—There was a good supply, but it consisted of wormy and inferior root, and sold partly at previous rates, with the exception of one parcel, which realised about 5*d.* over valuation. This transaction does not, however, influence the general position of the market. The following prices were paid: *Shensi*, small sound root, round, pale fracture, 1*s.* 9*d.*; ditto, flat, partly rough in coat, fair appearance, 1*s.* 2*d.* to 1*s.* 3*d.*; bold round, rather dark and spongy, and partly wormy, 1*s.* 2*d.* to 1*s.* 3*d.* *Canton*, good bold flat, ¾ grey fracture, 1*s.* 9*d.* to 1*s.* 10*d.*; round, 1*s.* 8*d.*; spongy round and flat mixed, 1*s.* 3*d.*; dull pickings, 1*s.* *High dried*, very bold, but rough and wormy, 1*s.*; small dull, 8*d.* per lb.

SARSAPARILLA.—A large supply sold at about previous rates: grey *Jamaica*, country damaged, 1*s.* 8*d.* to 1*s.* 10*d.*; red ditto, 1*s.* 6*d.* to 1*s.* 7*d.*; good *Lima Jamaica*, damaged, 1*s.* 6*d.*; sound, 1*s.* 7*d.*; *Honduras*, inferior, 1*s.* Fourteen bales very inferior *Honduras* imported *via* Hamburg were bought in at 1*s.* 3*d.* per lb., an offer of 8*d.* being refused. A parcel of 94 bales good *Mexican* (Tampico) is said to have changed hands privately at 3½*d.* per lb.

SENNA.—A large supply sold with fair competition, in some instances at a decline of ½*d.* per lb., but generally at previous rates. The assortment, as regards quality, showed an improvement upon recent offerings, and it included several parcels *Alexandrian* leaves. The following prices were paid: *Alexandria*, small broken leaves, 11*d.*; fair greenish siftings, 8*d.* per lb. *Tinnevely*, good bold, 8*d.* to 9*d.*; fair to good fair, 5*d.* to 6*d.*; ordinary down to 2*d.* per lb. Fresh arrivals of *Tinnevely* leaves have been received this week.

SHELLAC.—There is a little more inquiry for this article, and shippers at Calcutta are asking somewhat higher prices. For standard second *orange* (TN) for arrival 44*s.* is now wanted. In the drysaltery sales exceptionally fine first *orange* (H in diamond) was offered, and sold at 59*s.* per cwt., a high price under the circumstances. *Button* lac is again from 2*s.* to 3*s.* lower. First *button* offers at 57*s.* per cwt.

SNAKE ROOT is held at 1*s.* 8*d.* per lb.

SODA.—*Crystals* are lower, at 49*s.* in London and 43*s.* on the Tyne. *Nitrate*: Prices for prompt delivery, in this country, and also in Germany, have experienced a very rapid advance, and exceptional sales have consequently been made under the pressure of immediate requirements. The market appears to be in a very sound position. 11*l.* is quoted here. Valparaiso advices from February 11 state that the association of producers of nitrate of soda was to hold a meeting at Iquique, on February 28, in order to decide whether and under what conditions the present combination will be carried on after the end of March. So far opinions on this subject are much divided, and it is therefore quite impossible to foresee the result.

WAX (BEES') is in very good demand, and realises full values. *Australasian* grey and dark, 135*s.*; *Jamaica* orange, 122*s.* 6*d.*; red and brown, 115*s.* to 120*s.*; *East Indian* yellow and orange, 115*s.*; fair *Cape*, 105*s.*; dark and drossy *Mauritius*, 88*s.*

THE AMERICAN MARKET.

NEW YORK, March 11.

SINCE last writing the drug market has been less active; not that the consumptive demand has fallen off, but there appears a disposition on the part of large operators and buyers to take matters quietly now that the market has been established on a steady basis. It was thought by some that the sudden decline in quinine would cause a drop in the prices of other articles that had advanced collaterally, but up to the present there are no signs of weakness so far as regards the latter. Now that political affairs in Europe appear more settled, an active inquiry for export has sprung up.

The prices sterling (in parentheses) are what the different articles would cost delivered in London, all market allowances, discounts, &c., being taken into account. Importers can therefore see at a glance the course of this market compared with their own.

ACETATE OF LIME.—Considerable transactions in *brown* took place for the United Kingdom at about 10*l.* c.i.f. on contract. There is a scarcity of spot stock, and 11*l.* c.i.f. is now demanded for prompt shipment.

ALOES (CURAÇAO).—The importers have raised their pretensions for what they hold here. No arrivals are taking place, and if they only cease altogether for six or nine months, we may see good prices realised. The United States used formerly to consume large quantities of *Cape* aloes, but since the *Curaçao* variety became so cheap, the importations of the former variety have considerably fallen off.

BALSAMS.—With the exception of a few cases *Maracaibo Copaiba* and 15 barrels *Pará* from Liverpool, no arrivals have taken place since last advice. The former brought 37*c.* (1*s.* 8*d.*), while the *Pará* went to a distillery. *Maracaibo* is quite scarce, the quotation being nominally 40*c.* (1*s.* 9½*d.*). *Tolu* is cheaper, sales being reported at 27*c.* (1*s.* 2½*d.*) for 40-lb. tins. *Peru* remains neglected; there are several parcels in the importers' hands unsold.

CASCARA SAGRADA.—Freights from the Pacific overland having been restored to the old high rates, this bark will now cost 2*c.* to 3*c.* per lb. more to bring here; an advance may therefore be expected before long.

CUBEBS.—The price demanded and obtained in this market for genuine berries is \$1.50 (37*l.* 9*s.* 6*d.* per cwt.). Stocks are said to be small, but so, it need hardly be said, is the demand at such a high figure. The oil sells at \$10.00 (42*s.*), and if pure is too low altogether in comparison with the drug.

GUM CHICLE.—There is a demand for this article springing up from France and England. At present there are enormous stocks here, at the market price of 30*c.* (1*s.* 5*d.* per lb.).

GUARANA.—Supplies of the new crop may be expected to arrive soon from *Pará*.

OIL OF PEPPERMINT.—The demand appears to be dead, and so also does the speculation which usually takes the place of consumptive inquiry. The position of the article is unchanged for the last month, and shows no weakness. Holders of the small stock appear to have every confidence in better prices during the summer. *H. G. Hotchkiss* is quoted \$3.65 (16*s.* 9*d.*), and pure bulk Wayne county oil in tins \$3.25 (13*s.* 9*d.* net).

QUININE.—Speculators took hold of the market when the late boom was at its height, and began offering large quantities. *German* in bulk at lower and lower rates. It appears to be a fact that within a few days the market dropped from 60*c.* (2*s.* 6½*d.*, 5 per cent.), at which a large business was passing, to 50*c.* (2*s.* 1½*d.*, 5 per cent.), with very few sales at intermediate prices. Consumers and small dealers ceased purchasing; and the market becoming demoralised, offers were made down to 45*c.* (1*s.* 11*d.*, 5 per cent.), at which a halt was called, for plenty of buyers were forthcoming at that figure. To-day the market for bulk has improved, and may be called 50*c.* (2*s.* 1½*d.*, 5 per cent.). The domestic makers reduced their price on Monday to 65*c.* (2*s.* 9*d.*, 5 per cent.) for ounces. The operations here were aided by London

parties in bearing the market down, and it is thought here that the forced sale of Brunswick and Mannheim brands in the London drug sales of the 10th was part of the deal.

SARSAPARILLA (MEXICAN), as predicted some time ago, is now practically controlled by one holder, and has advanced to 9*c.* (5½*d.*) for *Vera Cruz*.

SERPENTARIA has declined again, and large sales are said to have taken place at 27*c.* (1*s.* 3½*d.*) per lb. to arrive in two or three weeks. The old price of this article used to be about 20*c.* (11*d.*); it may fall to that figure again.

SPERMACETI is dearer. Very little can be had at 41*c.* (1*s.* 9½*d.*); an order for 100 boxes would clear the market.

CABLEGRAM.

NEW YORK, March 23.

OPIUM.—There has been an active market for prime druggists' opium during the past few days at advancing prices.

BALSAM COPAIBA.—Large purchases have occasioned advances in this drug.

SULPHATE OF QUININE.—Home makers have reduced their quotations to 62*c.* in oz. vials = 2*s.* 7½*d.* in London.

THE GERMAN MARKET.

HAMBURG, March 22.

THE general features of the drug and chemical market remain the same as at the date of our last. Trade has been confined to supplying the immediate wants of consumers, and the established prices generally have been steadily adhered to.

Quotations in this column are given in marks (11¾*d.*) per 100 kilos., or per kilo. (1 kilo = 2 lbs. 3½ oz.; 50¾ kilos. = 1 cwt.). The prices in parentheses show the parity in London.

ALOE (CURACAO) was again offered in great abundance, and holders had to reduce their pretensions in order to find purchasers. Good qualities are held at 60*m.* to 65*m.* (27*s.* to 30*s.*)

BALSAMS.—*Copaiba* is firmly held at 3 40*m.* (1*s.* 6*d.*). The stocks are small, and the tendency is towards further improvement. *Peruvian*.—Although a good business has been done in this article, no confidence is manifested in the speculative movement, and prices are unchanged, at 10*m.* (4*s.* 6*d.*). *Tolu* still neglected.

CAMPHOR unchanged; *refined* is held at 185*m.* (8½*d.*) per lb.

GALLS.—*China* are quiet; there is very little doing in the article. The last arrival of about 200 cases fair Shanghai found no buyers as yet.

OILS (ESSENTIAL) have generally been very quiet the last fortnight. *Star anise* is rather easier, and 14 60*m.* (6*s.* 6*d.*) per lb. is asked. *Oil of Peppermint*, American (*H. G. Hotchkiss* brand) is again cheaper, 15½*m.* per lb. (15*s.* 6*d.*)

OIL (COD-LIVER).—A good business at rapidly advancing prices has been transacted during the past fortnight, and an advance of 115*m.* to 135*m.* for fine Lofoden must now be paid. The market is very firm, and prices for genuine new oil are tending upwards.

QUININE.—There is no change to report. Holders who expected the upward movement to continue are rather disappointed, but still hold firm. Second-hand owners ask from 72*pf.* to 75*pf.*, according to brand.

ROOTS.—*Jalap*.—No sales to record, but prices remain firm at 102*m.* to 105*m.* (4½*d.* to 5*d.*). The arrivals of the new crop, only 20 bales very ordinary *Vera Cruz*, are held at 90*pf.* (4*d.*). *Rhatania*, *Payta*, prime quality, is very scarce, and is quoted 140*m.* to 150*m.* (6*d.* to 7*d.*).

SEEDS.—*Sabadilla* are inactive, and business unimportant; the imports of the new crop (altogether about 350 bags) remain held at 60*m.* (2½*d.* to 3*d.*), unsold.

WAX (VEGETABLE).—The market for *Japan* wax is very quiet, 131*m.* to 102*m.* (45*s.* to 46*s.*) being the quotation for prime hard and whitish squares.



Memoranda for Correspondents.

Always send your proper name and address: we do not publish them unless you wish.

Write on one side of the paper only; write early; and devote a separate sheet of paper to each query if you ask more than one, or if you are writing about other matters at the same time.

If you send us newspapers please mark what you wish us to read.

Ask us anything of pharmaceutical interest: we shall do our best to reply.

Letters, queries, &c., not noticed in this issue will, if possible, be attended to next week.

Before writing for formulae consult the last volume, if you have it.

Lime in Filtering Papers.

SIR,—I can verify the statement made by your French correspondent that filtering papers contain lime. Some time since I had occasion to filter a beverage; to my surprise the filtrate tasted very limey, and could be compared only to flavoured lime-water, which of course had to be thrown away. The origin of the lime was a puzzle to me, but now I have the mystery solved. This is a serious matter if looked at from the "analyst" point of view, because it would be a fruitful source for actions for adulteration.

Yours truly,
CAUTIOUS. (55/71)

The Sun in the Window.

SIR,—My experience has been similar to Mr. Fitton's. My shop faces the south, and on the top of window enclosures of each window there are two carboys and one specie jar. On windy days the sun-blinds are not always put out, in consequence of damage done to them by the wind; and if the inner blinds are not drawn down the sun's rays passing through these carboys have repeatedly burnt papers, &c., that have been placed casually on the top of enclosure. At the present time the stand for the specie jar is burnt—completely charred—in several places. Some blinds on a loose roller were placed on top one day, and were afterwards found all ablaze. Enclosed is a specimen of it. The blind would be rolled round about twenty times, and where the rays fell the blind and roller were completely charred. *Experientia docet.* I have not placed anything else there since.

Yours faithfully,
PHENIX. (71/26.)

SIR,—Mr. G. W. Fitton, of Hertford, is not singular in his experience of his carboy acting the part of a lens, and igniting his window-fittings. Some years ago I experienced the same result (also, I believe, in the month of March). The explanation is obvious: the rays of the sun do not strike at the same incidence in winter as in summer, and the globe-shaped carboy acts as a solid lens when the rays fall directly on the upper shoulder of the carboy.

Some years ago I witnessed the sudden fracture of one of Treble's bent plate-glass counter-cases, through change of temperature, and my latest experience is the sudden fracture of several of Maw's fig. D opaque-glass show-jars, attended with a report as loud as that of a pistol. The jars are not exposed to the rays of the sun, and evidently there has been some defect in annealing.

W. D. (71/20.)

Apprentice (Guisbro') tells us of a similar occurrence.

Pharmacy in South Africa.

SIR,—In reply to a letter signed "Samuel Cox," which appeared in THE CHEMIST AND DRUGGIST of December 11, 1886, referring to my remarks on "Pharmacy in South Africa," I have pleasure in notifying that what this gentleman's letter states as to "a portion of my letter being utterly incorrect," does not refer to anything stated by me. It will be seen on reference that I specially mentioned that the prices were not obtained in Cape Town, and, by way of enabling readers to get at the difference, I gave an example of the carriage of a ton of coal to the Fields from Cape Town. However, in order that there may be no further comment on the accuracy of my statement of prices, I beg to refer inquirers to Mr. A. Davison (one of the leading chemists in the Fields), whose dispensing list was copied in my letter to you of September 12, 1886. I remain,

Planet Chambers, Yours faithfully,
Collins Street East, Melbourne. W. S. SHEPPERSON.

Mr. Mackenzie's Action.

SIR,—The action brought against the Edinburgh Exhibition Association and raised in my name, as noticed in your journal of March 12, was initiated by me as representing a committee of gentlemen, acting under an Act of Parliament, in order to have a public park called the West Meadows restored for the use of the inhabitants, and to effect the removal of hideous obstructions and remains of the late exhibition. The executive committee, to whom these were given up, seemed to have forgotten they had to be restored. The action had an immediate effect, as the day after it was called the obstructions were removed and a beginning made with the remains.

Yours truly,
March 17. JAMES MACKENZIE.

Lyons's "Pharmaceutical" Assaying.

SIR,—In your kind review of my little "Manual of Pharmaceutical Assaying," you call attention to a claim on my part for originality in the method given for the valuation of amyl nitrite. The originality in any case would have been small, since the process was confessedly but an adaptation of Mr. Allen's method of estimating ethyl nitrite. That the author had anticipated me in making this adaptation was not strange, but it had not come to my knowledge. My esteem for that gentleman, no less than my self-respect, would have forbidden me to wear honours that were his due. Again thanking you for the generosity of your critical notice,

I beg to remain, very respectfully,
Detroit, Mich., March 9. A. B. LYONS, F.C.S.

The Pharmacy Acts Amendment Bill.

SIR,—Believing that the "Pharmacy Acts Amendment Bill" shortly to come before the House of Commons is not promoted in the real interests of the majority of the chemists and druggists of Great Britain, but is merely the thin end of the wedge to vex, rather than benefit, the trade at large, would it not be well to have the whole subject of proposed "Bloomsbury Square" legislation thrashed out in your columns before the next election of the Council? There are weightier matters affecting the trade awaiting legislation than any increased stringency in the examinations. So long as ignorant grocers—nay, ignorant surgeons—can keep open drug shops, and the cream of dispensing be performed by "limited liability" companies, what is the use of adding to what is called our professional status? When the Pharmaceutical Council have come to a knowledge of what trade requirements really demand, and have satisfactorily proved that they have exhausted the legal forces at present to their hands, then perhaps it will be possible to persuade the legislature to grant them further powers. In the meantime I have taken upon myself to recommend an influential member of the Commons to block the Bill, should the riddance of the Irish bugbear make it possible for even a first reading to ensue.

COMMON SENSE. (72/63.)

Itinerant Pharmacy.

SIR,—Times are bad, and the firm in which I am interested, living in a provincial town, have under their consideration the advisability of sending one of their assistants round the country to solicit orders from the clergy, gentry, and farmers. Would you, through the columns of your valued journal, *THE CHEMIST AND DRUGGIST*, specify some of the difficulties likely to be met with, or if it would transgress any pharmacy law or rule? They propose employing a pony and trap, and literally hawking proprietaries, &c. In case the assistant prescribed while on such journey, and sent the medicines afterwards, would he be infringing any law? Would not a licence be necessary to hawk medicines? The experience of my brethren who have tried the "Travelling Druggist" business would be much appreciated, and whether it paid or not.

Yours already greatly obliged,

LUTHER SOULEY.

Ipswich, March 21.

Linimentum Terebinthinæ.

SIR,—I gather from your report on Professor Redwood's paper that this liniment, as regards fluidity, should at least be pourable; if that be so I am grieved to think that my thick white and goodly-to-look-upon jelly in the pot is, so to speak, out of form. Thinking the cause of thickening was due to free carbonate in the soap, I straightway examined the sample that I received some six months ago from a respectable firm, none the worse for bearing a name suggestive of the finny tribe, and freed the soap by rectified spirit from a little free carbonate; then, having convinced myself that the turpentine used did not boil under 320° F., made another lot, but with a result as before. I should mention that before adding the last drachm or two of camphorated turpentine the emulsion was fluid, but a few seconds after adding the entire quantity, though stirring the while, it became as thick as vaseline, and continued trituration would not resolve the too too solid product into the wished-for consistence. Then, sir, I gave Mr. Richards's plan a trial, and used a twopenny paste-brush. After brushing in the water a drachm or two of the camphor, turpentine was added, which, under the severe thrashing it was receiving from the brush, caused the soap to separate into little lumps; after two minutes' treatment of this kind the lumps gave in and coalesced. Then more turpentine was added; this did not take so long to incorporate, and when the whole of it was added I obtained a product in no way different to the previous one.

I think Mr. Richards's suggestion very good; I made about 2½ oz. in less than twelve minutes—the pestle process required nearly twenty minutes. But, sir, I am not ashamed of my product, as I do not think it can be improved upon; and I further think if Professor Redwood and Mr. Martindale produced the like of it, instead of their pourable emulsion, they would be equally proud of the achievement. I think a liniment that is bland and of the consistence of vaseline is more suited for its intended use than one that is too thick for a narrow-mouthed bottle, and becomes too thin for a pot.

Yours obediently,

TORSY. (71/73.)

DISPENSING NOTES.

[The opinion of practical readers is invited on subjects discussed under this heading.]

Ac. Nit. Mur. Dil. and Nux Vomica.

SIR,—I think your reply is hardly an answer to my query. After describing the colour of the mixture as dispensed by the Brighton chemist and by myself, I ask, "which was the right colour?" Your answer would imply that you had not considered the tinct. chlorof. co. a factor in colouring the medicine. Now I ask, was not the tinct. chlorof. co. sufficient of itself to impart a "pink" colour to the mixture, putting aside the probable action of the acid on the tinct. nux vom.? There can be no doubt that the acid destroys the deep colour of the tinct. chlorof. co., changing it from a lake colour to a pink; yet I cannot understand how our Brighton friend produced a cream-coloured mixture. [Nor can we.—ED.]

Yours truly,

SALICIN. (38/72.)

Potas. Iodid. and Spt. Æther. Nit.

SIR,—Is it possible to dispense the following mixture so as to prevent any decomposition taking place? I have tried it several times, and always with an unsatisfactory result.

Manganes. sulph.	..	..	..	gr. 8
Ferri sulph.	..	..	..	gr. 16
Potass. iodid.	..	..	..	5j.
Liq. pot. arsenitis	..	..	..	3j.
Spt. æther. nit.	..	..	..	3iv.
Tinct. nucis vom.	..	..	..	3iss.
Aq. menth. pip.	..	..	..	3viii.

M. Ft. m-t.

Yours truly,

DISPENSER. (36/70.)

[This mixture cannot be dispensed satisfactorily, owing to reaction between the iodide and spt. æther. nitros., and, if possible to consult the prescriber, he should be asked to omit the spirit.]

21/74. C. C.—The decomposition occurring in your prescription is similar to the above.

An Examination Prescription.

L. M. N., who sent a prescription last week stating that it was for an emulsion, now writes to say that he omitted "Tincturæ toluanae 5ij." (the most important ingredient). It is only necessary in order to make an emulsion of this to add 2 drachms of mucilage of acacia to the solution of chlorate of potash, and pour the tincture into the mixture, adding the simple syrup and the glycerine last.

31/74. Carl.—You should not hesitate to dispense tr. cemicifugæ, B.P., for Tr. Aetææ Racimosæ. When you are reduced to a choice between "Squire" and "B.P.," stick to the latter.

17 BLOOMSBURY SQUARE.

I LOVE it, I love it, and who would dare
To chide me for loving that house in the Square?
'Twas there that I sought for the coveted prize,
And passed thro' the mill at the hands of the wise.
'Tis bound by a student's love to my heart,
Not an atom will break, not a molecule start.
Would ye learn the spell?—my "exam" was there,
And a sacred place is that house in the Square.

In student's days how I lingered near
That hallowed place with listening ear,
To listen to words that my tutors said
When they taught me the means of earning my bread!
They told me that wealth would flow like a tide,
With truth for my creed and skill for my guide;
They taught me the uses of chemicals rare,
And I studied hard at the house in the Square.

I sat and I listened for many a day
To the wise professors, old and grey;
And I almost wept when they told me plain,
If I failed at first, I must try again.
But days flew on, the last one sped,
My hopes sank low, and my eyes were red;
I learnt how much the heart can bear
When my "exam." was on in that house in the Square.

'Tis past, 'tis past! when I think of it now
It causeth the tide of feeling to flow.
There I was tested, by questions plied,
My knowledge—or, rather, the lack of it—tried.
Ye who are older may deem me weak
When I tell you my tongue refused to speak,
So pleased was I when I came out there,
"A Minor man" from that house in the Square.

February 22.

SODA CARB.

LEGAL QUERIES.

63/69. *Subscriber*.—Dentists are not in any degree exempt from the provisions of the Pharmacy Act.

3/70. *Ignoramus* asks:—"Can an apprentice be legally compelled to clean show windows, shake mats, and do other such work, generally that of an errand boy?" [It is impossible to answer such an inquiry without knowing all the circumstances. There is no Act of Parliament defining the duties of an apprentice, and it would be unreasonable to lay down a regulation applicable to all cases.]

13/194. *G. G.* asks:—"Can a grocer (not a registered chemist) sell laudanum labelled 'anodyne,' with a patent-medicine stamp on it?" [As this would be an obvious evasion of the Pharmacy Act, we should think the grocer would most likely get the worst of it in the event of a trial.]

Pharmacist (6/73) asks:—"Can any of your subscribers recommend or tell me the most economical way of obtaining register for label? I have the stamped notices to the amount of 25s. [We do not understand this inquiry. There is only one legally effective way of registering a label, namely, at the Trade-marks Office, and, as this costs 25s., our correspondent seems to have adopted it.]

53/73. *Fish*.—Unqualified persons may make and sell compound medicines containing poisons as patent medicines. If, however, such medicines are fairly preparations of the poison, they are required by the Pharmacy Act, 1868 to be labelled as if they were not patent medicines, whoever sells them. (2) Messrs. Burgoyne & Co. publish a little pamphlet giving information about the use of salicylic acid, which try to get.

17/74. *Pharmacy*.—Only pharmaceutical chemists can use or exhibit the title "pharmacist."

33/74. *Tinct. Opii*.—It is illegal to supply a veterinary surgeon or any one else with methylated tincture of opium.

MISCELLANEOUS INQUIRIES.

46/65. *B. W.*—The title **Blood Mixture** is registered, and if you put up any similar preparation you should be careful as to what you call it. The following is a formula for iodised sarsaparilla, which gives an effective spring medicine:—

Potassii iodidi ..	..	..	..	gr. 36
Potassii chloratis ..	..	..	..	gr. 30
Liq. arsenicalis ..	..	..	..	℥xxiv.
Spt. chloroformi ..	..	..	..	3ij.
Dec. sarsae eo. ad ..	..	..	..	3vj.

M. 3ss. ter die.

Non-Official Remedies.—Could any of your numerous readers decipher the following order, handed into my shop the other day? Was told that it was a Bradford chemist who was advertising it as "Hop Bitters."

1½d. hops
2d. condru bark
1½d. kradna root
1½d. rollique root
1½d. noil root
1½d. rock root
1½d. tacher

NIL DESPIRANDA. (65/72.)

10/188. *R. H.*—It has lately been stated that **Freckles** can with certainty be removed by touching them with liquid carboic acid. The acid causes the spot to become white (without pain), and after a few days the old skin peels off and the freckle is gone. For ordinary use, especially as a pre-

ventive, sulphocarbonate of zinc in the proportion of 5 gr. to 1 oz. of rose water, with a little glycerine added, appears to do good.

65/74. *F. C.*—Peroxide of hydrogen is used for bleaching the hair.

Tincture of Podophyllin (Soluble).—Resin podophyllin, gr. viij.; spt. ammon. arom., 3j. Digest for two or three days and filter.

Tincture of Euonymin (Soluble) is best made from the bark, 2½ oz. to 10 oz. of spt. ammon. arom. These tinctures may be mixed in equal proportions for a compound preparation. Dose of each (alone) for an adult, 10 to 30 minims.

Washing Fluid.—*Phoenix* (26/71) kindly sends the following formula in reply to "Magister" (13/187):—

Sapo com. ..	..	..	..	3ij.
Aq. pluv. bulliens ..	..	..	..	Cj.
Liq. ammon. fort. ..	..	..	..	3iv.

Dissolve the soap in a little water, add sufficient to make 1 gallon, then add liq. am. fort. and well shake.

56/71. *C. G. Y.* asks:—"Will you kindly tell me, if you take a situation in one of the stores, does it go against you afterwards if you want to get into a good house?" [Some employers are prejudiced against assistants from stores, while others are glad to get such. The matter balances itself.]

Assist Nature.—**Dusting Powder** for curing blotches of the skin may be made of ordinary violet powder by adding a fifth of its weight of oleate of zinc or boric acid.

7/69. *W. S. C.*—**Stephanotis Perfume.**—Essence white rose, 20 oz.; ext. jasmine, 10 oz.; ext. civet, ½ oz.; otto rose, 7 minims. You will find a large number of formulae for popular perfumes in our 1885 volume, page 368.

12/70. *E. S.*—A popular **Starch Gloss** which we examined some time ago we found to consist of about 8 parts of borax and one of starch.

13/70. *F. C. S.*—You will find the formula for **Nubian Blacking** in our last volume, page 476.

43/70. *Santonine* draws attention to the dose of santonine in a recipe for worm powders given in our last volume, page 221; there we recommend half a grain as the dose for children under one year. Cassell's "Family Physician" recommends 3 grains for children of from two to ten years, and Squire gives 2 to 6 grains for children. We may say that 5 grains is the ordinary dose for an adult, and though it were doubled no greater effect is produced unless upon the patient who is apt to suffer from toxic symptoms. The remedy is generally administered to children in too large doses, and the consequence is that santonine-poisoning is not uncommon, although fatal results have not occurred. The official dose is 2 to 6 grains for adults.

J. J.—**Elliman's Royal Embrocation.**—Hager gives the following:—White of eggs, 2 parts; turpentine, 8 parts; crude acetic acid, 50 parts; water, 50 parts; methylated spirit, 60 oz. Mix s.a. Yolk of egg is a better emulsifier. The Universal Embrocation resembles Dr. Stokes's liniment, for which the formula is:—Turpentine, 3 oz.; acetic acid, 5 drs.; rose water, 3iiss.; ess. of lemon, m 80 (may be omitted); yolk of one egg.

31/72. *Rhubarb.*—There is nothing to prevent you using any name you like for trade purposes. Milk of lime is freshly slaked lime made into a cream with water.

36/192. *I. H. Duncalf*.—The following works on skin diseases, published by Churchill, are useful:—"A Practical Treatise upon Eczema" (McCall Anderson, 7s. 6d.); "Manual of Diseases of the Skin" (Bulkley, 6s. 6d.); "Healthy Skin" (a popular treatise by Erasmus Wilson, 2s. 6d.).

Devon asks:—"Do you think a town address would prove more successful in advertising a proprietary than one in the country? Are there advertising agents who especially attend to these matters for chemists?" [There are obvious advantages in having a London depôt for an article in frequent demand. Any advertising agent will spend a chemist's money for him, but he had much better attend to that part of his business himself.]

Weeds on Boats.—Our boatmen here use arsenic stirred in with red lead paint to prevent the weed and shell growth on bottom of their boats.—*Country Chemist* (6/72).

18/71. *C.* recommends a preparation for this purpose made by Stevens & Co., Brixham, Devon.

Warts.—For "small doses of magnesia," read "sulphate of magnesia."

I gave 15-grain doses of mag. carb. ter die, and produced most unpleasant loud gastric rumblings and severe griping. Have since seen, I think in *THE CHEMIST AND DRUGGIST*, the same French doctors say that mag. sulph. is intended, but must be long continued to ensure success.—*Country Chemist* (6/72).

SIR,—In your issue of December 4, 1886, page 736, it was stated that sulphate of magnesia taken in small doses would remove warts. I lost no time in trying the experiment, and am pleased to say that it answered perfectly. I directed a small thimbleful (about 10 grains) to be taken early every morning for about a month. Before this, several "remedies" had been tried, without much apparent result.

Yours truly,

HEDER. (72/51.)

Aquarium.—*Valisneria* is now easy to be obtained through columns of *Exchange and Mart*. I have a nice lot, bought two years ago, grows well in my 4½-gallon aquarium. Secret of good growth seems to me to be not to disturb the bottom when drawing off, and not to change water too often. I let it stay three months in winter.—*Country Chemist* (6/72).

Tin to Cardboard.—Get penny stick Prout's elastic glue and use as directed; no trouble and sets at once. The shellac composition must stand to dry and set.—*Country Chemist* (6/72).

24/69. *G. A.*—Dextrin and sugar may be added to ink for copying purposes in the proportion of half an ounce of each to the pint.

31/71. *S. L.*—Apply at 28 Eastcheap Buildings, E.C.

Liquor Eastoni.

Sulphate of iron	150 grs.
Phosphate of soda	135 grs.

Dissolve each of these salts in 5 oz. of boiling water, mix the solutions and add 28 grains of bicarbonate of soda. Stir well, collect the precipitate on a calico filter, and wash with 20 oz. of warm water, press out as much water as possible, and transfer the precipitate to a mortar. Separately dissolve:—

Phosphate of quinine	64 grs.
Strychnine	2 grs.

In 3ss. of acid. phosphoric. conc. and 20 grs. of citric acid dissolved in 1 drachm of water. Add this solution and 3v. of acid. phosph. conc. to the phosphate of iron, dissolve, filter, and make up to 1 oz. if necessary with water.

One drachm of either of these solutions is to be mixed with 7 drachms of syrup to make the medicinal syrup.

T. R. I. C.—Packets of chlorinated lime are rendered airtight by dipping them in melted pitch after the packet has been secured in the ordinary manner. **Liquor Ferri Iodidi.**—Iron wire (cut small), 1 oz.; iodine, 2 oz.; water, 5 oz.; digest in a flask for a day, then transfer to an evaporating-dish, and heat to boiling until the solution measures 4 oz. Then filter and add 3j. of hypophosphorous acid (30 per cent.) to preserve it.

15/70. *Credo Signo.*—A solution of cosin (an aniline red) to which a little mucilage of acacia has been added makes an excellent **Red Ink**. The following gives a good ink:—Pure carmine, 3ss.; solution of ammonia and mucilage of acacia, of each, 3ss.; water to 5iv. Dissolve the carmine in the ammonia and add to the other ingredients. See also last volume, p. 714. **Blue-black Ink.**—A formula was given in last volume, p. 565. Here is another:—Macerate 4 oz. of coarsely-powdered galls for twenty-four hours in 16 oz. of water; strain, press, and digest the galls with another 8 oz. of water for a few hours; again strain and press. Mix the liquors with 2 drachms of white bole; shake well and strain through flannel, making up to 22 oz. if necessary. Next dissolve sulphate of iron, 5iv.; sugar, 5vj.; and hydrochloric acid, 3j., in 8 oz. of water, and add to the gall infusion. Then dissolve 15 grains of aniline blue in 1½ oz. of water with the aid of heat, and add it to the ink. Allow to stand for a fortnight before using. Add 10 drops of carbolic acid or one drop of oil of cloves to each pint of ink in order to keep it. **Violet-black Copying Ink.**—Add to the formula (30/60) given on p. 308, ½ oz. of sugar and the same of glycerine or mucilage.

71/74. *Bentley.*—**Oleum Pini Pumilionis**, or pine-needle oil, is a colourless or greenish-yellow oil of an agreeable terebinthinate odour. According to Hager, it has a sp. gr. of 0.850. See this journal, May 1, 1886, p. 388, and the *Throat Hospital Pharmacopœia*, in which it occurs.

5/72. *J. Thompson.*—We again print the formula for **Glycerine and Cucumber**: White glycerine soap, 3ss.; cucumber ointment, 3j.; distilled water, 3xxxij.; ess. jockey club, 3ss.; shave the soap into shreds and dissolve it in 2 oz. of hot water (by the aid of a water-bath). Transfer to a hot mortar and incorporate the ointment, previously liquefied with it. Gradually add the rest of the water (hot), stirring constantly and dexterously; add the perfume before it cools. The methods which you have used to remove ink are all that we can recommend. See our issue of December 4 for formula of Fehling's solution. The following is the method for **Estimating Sugar in Urine.**—Dilute 5 c.c. of the urine with distilled water to 100 c.c., and fill a burette with the mixture. Then mix 10 c.c. of the Fehling's solution with 40 c.c. of water, and bring to the boil; while boiling run in the urine mixture cautiously, until the blue colour of the copper solution has just disappeared. In order to note the end point exactly, the urine mixture must be carefully run in towards that point, the precipitate being allowed to subside; 10 c.c. of Fehling's solution is equal to 0.05 gramme of sugar. The volume of urine mixture used divided by 20 gives the quantity of urine which contains that amount of sugar, and from that the percentage may be calculated.

30/72. *Homer.*—We have not yet noticed any medical account of the case of the Hon. F. Strutt.

29/72. *Waxy Kidney.*—The Local Board of Health at Carlsruhe states in a proclamation that **Warner's Safe Cure** consists of a decoction of liverwort (*Hepatica triloba*), with saltpetre, glycerine, and alcohol mixed therewith and flavoured with oil of wintergreen.

28/72. *Durham.*—Fermented liquors, such as beer, do not keep more than a few hours in warm weather, but if bottled, and if they contain a little bisulphite of lime (the usual preservative) they will keep for years. Unfermented wines are of the nature of syrups, with lime juice as a basis.

Hair Wash Powder:—Powdered borax, 1 lb.; camphor, 1 drachm; oil of bergamot, 20 drops. Mix well.

36/72. *Gamboge*.—The yellow colouring preparation which you send appears to be made from puree.

49/63. *Ung. Oxygenatum*.—There seems no doubt that both the ointments which you send are the same. The statement that citrin ointment cannot be analysed is erroneous. When prepared below 212° F. it is entirely soluble in ether and benzol, because the mercury in it exists as elaidate; but when heated above that temperature nitrate of mercury is formed, and this is insoluble in the solvents named, hence there is no difficulty in separating the mercury.

26/42. *M. D.* asks "why salicylate of potassium does not exist as a remedial agent, considering potassium preparations are more effectual in cases of gout, &c., than those of soda." [It is entirely custom which has favoured the use of salicylate of soda in preference to the potash salt. Some physicians recognise the superiority of potassium salicylate in some cases by prescribing salicylic acid and bicarbonate of potash in mixture. But there is this against potash salts, that their long-continued use have a depressing influence on the system.]

71/36. *J. W.* puts this question—"whether acetic acid or ammonia predominating in a liniment is the better for a stock preparation, supposing the other ingredients to be the same in both cases—i.e., out of the two which to choose?" [There can be no doubt as to ammonia being the better if a rubefacient action is desired. A much larger proportion of acetic acid is required, and this would interfere with the "rubbing" properties of the liniment. On the other hand, for a liniment which is merely required to assist rubbing, one with a small excess of acetic acid is preferable to one with an equal excess of ammonia.]

21/72. *Pax* (Paris).—You will find a formula for butter colouring in our issue of February 19, p. 248. **Cheese Colouring.**—Roll annatto and carbonate of potash, of each 1 oz. Digest for a day in 10 oz. of water and filter, making up the filtrate to 10 oz. with water if necessary. **Essence of Rennet.**—Chop up a fresh and clean rennet into small pieces, and digest in a solution consisting of salt, 4 oz.; rectified spirit, 4 oz.; glycerine, 2 oz.; syrupy lactic acid, 1 drachm; water, 30 oz. Allow to digest for a week with frequent agitation, then filter. Add 10 minims of chloroform and sufficient tincture of cochineal to colour. Make up to 40 oz. with water.

65/68. *W. Gregory*.—The butter colouring referred to in reply to "Pax" is a good colour for pomade. Ol. flavæ conc. may also be made by digesting turmeric or gamboge in cottonseed or olive oil.

55/72. *A Lancashire Chemist* complains that a certain patent medicine maker has used the pages of THE CHEMIST AND DRUGGIST, to wrap up $\frac{1}{4}$ and $\frac{1}{2}$ dozens of his cough mixture. This, it is considered, may be detrimental to the interests of chemists. The proceeding is calculated to hurt our feelings, but we do not see that we can make any effective remonstrance.

10/73. *Apprentice*.—**Dulcified Spirit of Salt.**—This was an old preparation, formulæ for which at one time appeared in the Edinburgh and Dublin Pharmacopœias. It was made by distilling dilute hydrochloric acid and rectified spirit. Ethyl chloride (C_2H_5Cl) was its principal constituent, but, like sweet spirit of nitre, its composition was very variable.

17/73. *G. E. T.*—Please refer to pages 21 and 22 of our Diary for 1887. These firms will supply you with all information.

60/72. *G. F. Brimson*.—Solution of chloride of antimony, to which a little nitric acid has been added, is used for bronzing gun-barrels. Very full directions are given in this journal January 1886, page 62.

12/73. *W. H. C.*—The addition of a drachm of bicarbonate of potash, or half a drachm of bicarbonate of soda, to the water in a 5-pint gazogene is sufficient to make potash or soda water.

25/74. *Berks*.—The "Art of Pharmacy" contains full information regarding concentrated infusions. Silver marking ink, for which we have recently published a formula, serves on the addition of a little glycerine for use with the stamp.

Labor (18/74, Canton) and *J. J.* (18/74) will find what they want in our issue of February 26, page 260. Salicylate of quinine contains about 74 per cent. of hydrate of quinine.

Information Wanted.

[Replies to the following requests are solicited by Correspondents of THE CHEMIST AND DRUGGIST.]

49/67. "Mylo" (a tonic bitter). Maker's address wanted.

J. J. Formula for Roger's nursery hair lotion.

35/70. Composition of Beecham's patent pills.

7/70. Materials for brass repoussé work. Where obtainable.

Dental Notes.

AMALGAM FILLINGS.—After excavating the cavity as usual, but without depending much upon undercats or retaining points, mix the amalgam ready for use; then dry out the cavity with the chip-blower and warm air, keeping it dry by placing bibulous paper around it. Then put into the cavity and against its walls some of Weston's oxyphosphate cement, and pack the amalgam carefully in, squeezing out all the superfluous material and covering the whole surface of the cavity. After that the edges are trimmed all around, so that none of the oxyphosphate is exposed; then finish the filling in the usual way. Dr. Rees, of New York, who proposes this method, finds that teeth filled in this manner keep their colour, no matter if the pulps are dead; and also that there is no discolouration of the amalgam between the wall of the tooth and the filling proper. The same method is applicable to gold fillings.

IODOL IN DENTISTRY.—For several years iodoform has been used in conjunction with eucalyptus oil for preparing carious teeth previous to stopping, and also in combination with wax as a temporary stopping. Its very unpleasant odour is, however, against it, and the recent introduction of *iodol* has been taken advantage of, and the new remedy is now gradually replacing iodoform in dental practice. Mr. Lloyd Williams gives the following formula (*Journ. Brit. Dent. Assoc.*):—

Iodolised Wax.

Paraffin ..	..	..	..	3ij.
Spermaceti ..	..	..	..	3ij.
Iodol ..	..	..	..	3j.
Carmine ..	..	..	..	gr. j.
Yellow wax ..	..	..	..	3iij.

Melt the waxes on a water-bath, and mix in the powders carefully and with constant stirring. Care should be taken not to liberate the iodine by overheating, although iodol is not decomposed under a temperature of 212° Fah.

In using the wax first of all dry out the canal with a saturated solution of iodol in chloroform, and having wrapped round a smooth Donaldson bristle with sufficient thin Japanese bibulous paper (which for this purpose is far preferable to cotton wool), apply a small quantity of the wax, and having gently heated over a spirit flame, so as to allow the paper plug to be soaked, the dressing is carried to the canal in a soft state, whilst the pulp chamber is filled with more wax, and sealed with the aid of a hot-air syringe. Iodol varnish is made by mixing 1 part of saturated solution of iodol in absolute alcohol with 4 parts of negative varnish. This may be applied to remote canals by saturating Japanese paper with it instead of with the wax.

DR. LINCK'S GENUINE MALT EXTRACT,

CONDENSED IN VACUO,

Prepared by M. KOCH & CO., Successors to Dr. Linck & Co., Stuttgart, Germany. (Established 1864.)

This carefully-prepared Malt Extract is well known on the Continent, and recommended by the highest medical authorities in cases of Debility and Emaciation, in Diseases of Children with Consumptive Symptoms, Chronic Cough, &c.

Sole Consignees for the United Kingdom — **H. POTHS & CO.,** 4 Creechurch Lane, Leadenhall Street (Late Sugarloaf Court).

Sold in Bottles—Retail Price, 2/- each; Wholesale, 19/- per dozen.

LEUBE-ROSENTHAL'S IMPROVED MEAT SOLUTION,

Prepared by R. STUETZ, Chemist, Successor to Dr. MIRUS, Jena, Germany.

This carefully-prepared Meat Solution contains the real, stimulating, and nourishing constituents of the best quality of beef, freed of fat and sinews. Owing to its high degree of digestibility, it is of the greatest value to persons suffering from stomach and nervous complaints, to delicate children, convalescents, etc. It is at the same time exceedingly appetising, and totally devoid of that objectionable nauseous taste so common in most of the Meat Preparations.

It is warmly and solely recommended by Professor Leube. See "Sammlung Clinischer Vorträge" of R. Volkmann, in Dr. Wiel's "Tisch für Magenkranke," and in Professor Reclam's "Gesundheit" (Zeitschrift für Hygiene), No. 14, vii., 1882, under the title "Newest Nourishments." Professor Reclam also has had great success with it in cases of debility of persons of all ages. This Preparation has been for some time, and is still, in use at the German Hospital, Dalston.

Sole Agents for England — **H. POTHS & CO.,** 4 Creechurch Lane, Leadenhall Street (late Sugarloaf Court).

Sold in ½-lb. Tins. Retail Price, 2/- each; Wholesale, 17/- per dozen.



SHOP BOTTLES & JARS

WITH VITRIFIED (burnt in) LABELS

(Black Letters on a ground of Pink or White Enamel).

Labels indestructible and of elegant appearance, forming an even surface with the glass or porcelain. The Jars of best porcelain, thoroughly greaseproof. The Bottles hand-made and of superior quality. Both are unsurpassed by anything in the market in every respect. Also a CHEAPER sort of Bottles and Jars, with labels equally indestructible, but very plain, especially suitable for Dispensaries, &c. Intending Buyers are requested to inspect Samples at

H. POTHS & CO.,

4 CREECHURCH LANE, LEADENHALL STREET, E.C. (late of Sugarloaf Court)

A large number of Shops have been fitted up with these Bottles and Jars, both in England and the Colonies, a list of which can be had on application.

TELEGRAPHIC ADDRESS: "POTHS LONDON."



IMPORTANT TO CHEMISTS & PATENT MEDICINE DEALERS

Large Profits and a Ready Sale. NO RISK.

BECK'S COMPOUND TONIC HOP BITTERS

Composed of Hops, Buchu, Podophyllin, Dandelion, and other valuable ingredients.

IN HALF-PINT BOTTLES TO RETAIL AT 1/-

SOLE PROPRIETOR—

ALBERT N. BECK, WHOLESALE CHEMIST, **HASTINGS.**

PRICES—CASES OF 3 DOZEN, 22/- NET.

Free on rails in London. Cases and Packing 2/- extra, allowed in full on return.

Special Offer to large Purchasers.—If 6 dozen and upwards ordered, the Name of Retailer will be printed on Label, and 1,000 Handbills bearing Name and Address will be supplied, and also Show Cards.

TERMS:—CASH WITH ORDER OR TWO LONDON REFERENCES.

Savaresse's Capsules.

SAVARS

CUBEB CIGARETTES.

SAVARS

CUBEB

CIGARETTES.

SAVARESSE'S

CAPSULES.

SANDAL WOOD;

COPAIBA.

Cubebs, Stramonium, and Cannabis Ind. (soothing). Relief in Asthma, Throat Cough, Bronchitis, Influenza. A specific against Pogs.

Boxes (12) 1s., 9s. per doz.; (36) 2s. 6d., 24s. per doz.

Full Directions.

EVANS, SONS & CO.,
LIVERPOOL.
EVANS, LESCHER & WEBB,
LONDON.

Savaresse's Capsules of membrane each containing 15 drops Pure Maranham Copaiba Balsam, or, also of membrane, each containing 10 drops Purest Yellow Sandal Wood Oil. The efficacy of these valuable medicines is due to the absolute purity of the Balsam or Oil, and to the very gradual solvability of the membrane as compared with gelatine.

Copaiba, 2s. 6d., 18s., doz. Sandal, 4s. 6d., 36s. doz.
EVANS, LESCHER & WEBB,
LONDON.

EVANS, SONS & CO.,
LIVERPOOL.

E. FOUGERA & CO.,
No. 30 NORTH WILLIAM STREET,
NEW YORK, U.S.A.,
Importers of and Agents for the Principal
FOREIGN MEDICINAL PREPARATIONS
AND SPECIALTIES.

AGENCIES AND CORRESPONDENCE SOLICITED.

EISNER & MENDELSON,
IMPORTERS AND EXPORTERS OF
FOREIGN & DOMESTIC HERBS,
ROOTS, DRUGS,
CHEMICALS & PATENT MEDICINES.

Consignments and Agencies solicited. Highest references furnished.
Sole Agents for the U.S. for Johann Hoff's Malt Extract.
" " H. Trommsdorff's Chemicals.

818 & 320 RACE STREET, PHILADELPHIA, PA.

AN ESTABLISHED NEW YORK
COMMISSION AGENCY,

Representing well-known English Manufacturing Chemists, and now doing an extensive business with the Wholesale Drug Trade of America, can introduce Specialities to advantage. Correspondence solicited.

Address—**FRANCIS J. MACNAUGHTAN**, 20 Cedar Street, New York City, U.S.A.

REFERENCES—**T. & H. SMITH & Co.**, 12 Worship Street, London; **MAY & BAKER**, Battersea, London; **ROBERT GRAESSER**, Ruabon, Wales.

LOFODEN COD LIVER OIL CO.,

NEW SEASON'S ARRIVED.

London Office: 135 Vine St., Minories, E.C.

Recommend their "NORTH STAR" Brand of non-congealable Cod Liver Oil as the finest and cheapest in the market. It remains brilliant several degrees below freezing point.

Write for Sample and Quotations, in Casks of 25 and 12½ Gallons, Drums and Winchester Quarts.

N.B.—OUR NEW OIL HAS ARRIVED.

GERMAN and American Homœopathic MOTHER TINCTURES.

TRITURATIONS, DILUTIONS, GLOBULES, Pure Precipitated SUGAR OF MILK.

DETAILED PRICE LISTS ON APPLICATION.

HOMŒOPATHIC DISPENSARIES ENTIRELY FITTED UP.

CARL GRUNER'S HOMŒOPATHISCHE OFFICIN, DRESDEN, GERMANY.

ESTABLISHED 1834.

Sole Agents for England and Colonies: Messrs. **DRYSDALE & CO.**, 4 Bury St., St. Mary Axe, London, E.C.

W. F. SMITH'S TASTELESS

DANDELION ANTIBILIOUS PILLS,

Price, 1s. 1½d. and 2s. 9d. per Box.

[Registered.] **TARAX. AND PODOPH.** [Registered.]

A **NON-MERCURIAL LIVER MEDICINE**, specially useful to the habitually constipated, and safe for all ages.

Worthy of trade notice. Reliable, and rapidly increasing in public acceptance.

Urgent caution needed against injurious imitations.

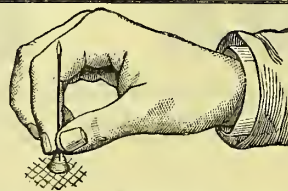
PREPARED ONLY BY

[1]

W. F. SMITH, M.P.S.,
280 WALWORTH ROAD, LONDON.

To be had of the usual Houses at Home and Abroad.

Trade Mark.



Registered.

THE
ASSOCIATION for the SUPPLY of PURE VACCINE LYMPH,
12 PALL MALL EAST, LONDON, S.W.
SOLE AGENTS FOR DR. WARLWORTH'S CALF VACCINE.

Tubes, 2s. each; Half Tubes, 1s. each. Pomade in vials, 5s.
HUMAN VACCINE, from healthy children only, microscopically examined and source quoted. Three Tubes, two-thirds full, 5s.; Tubes one-third full and Lancel-charged Points, 1s. each; Pin-points, 1s. 1½d. each. Eighteen Charged Small Points, 5s. Tubes two-thirds full (same as those mentioned above, but without source), in quantities for export, 4s. per 100 Tubes. Pin-points uncharged, 1s. per dozen. Vaccinations daily, between the hours of 12 and 2, by the Consulting Physician, at the uniform fee of a guinea. P.O.O.'s (including postage, and crossed London and Westminster Bank), with orders, payable to

EDWARD DARKE, Secretary.

Office hours, 10 to 4; Saturdays 10 to 2.

GOLD MEDALS—DUBLIN, 1882; BOSTON, 1883;
LONDON (INTERNATIONAL EXHIBITION), 1884.

SIR JAMES MURRAY'S PURE FLUID MAGNESIA.

The ORIGINAL Article, as prepared by the Inventor, Sir James Murray, M.D.

For over 60 years in use as an excellent remedy in cases of

ACIDITY, INDIGESTION, HEARTBURN, GRAVEL, AND GOUT.

Sold by all respectable Chemists, in **LARGE-SIZED** Bottles (the 1s. size containing nearly
Double the quantity usually sold at that price), at 1/, 2/6, and 3/6 each.

CAUTION.—Observe that the Signature of the Inventor is on every label.

SIR JAMES MURRAY'S FLUID CAMPHOR

Is a valuable remedy in cases of **SLEEPLESSNESS** and **WEAK NERVES**. Bottles, 1/ and 2/ each.

SIR JAMES MURRAY & SON, Chemical Works, Temple Street, Dublin.
BARCLAY & SONS, 95 Farringdon Street, London.

London International and Universal Exhibition, 1884, Gold Medal Awarded for our Pharmaceutical Preparations.
Calcutta Exhibition, First-class Certificate and Two Prize Medals Awarded for our Pharmaceutical Preparations.

HEWLETT'S MIST. PEPSINÆ CO. C. BISMUTHO.

Highly recommended in various forms of dyspepsia, having a direct action upon the mucous membrane of the stomach and intestines as a sedative. It can be administered with marked and almost instantaneous effect in the irritative form of dyspepsia, more especially when *pyrosis* is a conspicuous symptom, and pain occurs an hour or more after food. In simple neuralgic gastric pain following eating, occurring in feeble subjects, it is especially indicated, and even in *carcinoma* it has been used with great success in alleviating pain and vomiting.

In the dyspepsia of patients dependent upon some organic disease, and where there is a decided loss of nerve power, it is of singular service. Thus, for instance, a person after a meal complains of a peculiar gnawing and emptiness, with slight pain at the epigastrium, evident signs of general relaxation and loss of nerve power, clinical experience has shown that it is of great service as a tonic and stomachic. A portion of its value arises, it may be, from its action upon the spinal motor nerve-centres. Be these things as they may, experience has abundantly demonstrated the value of the compound as a stomachic, antidyspeptic, and tonic, in general functional atony and relaxation, and in the various forms of dyspepsia, constipation, or diarrhoea, connected with atony of the visceral muscular coat, the Mist. Pepsinæ Co. c. Bismutho is a very valuable remedy. In the *exhausting purging of Phthisis*, accompanied with night sweats and restlessness, Dr. MATHEWS, of Nantwich, has used it with marked and appreciable effect.

Price (in England) 10s. 6d. per pound.

Physicians will oblige, when ordering Mist. Pepsinæ Co. c. Bismutho, by writing Mist. Pepsinæ Co. (Hewlett's).

Packed (for Dispensing only) in 10-oz., 22-oz., 40-oz., and 90-oz. Bottles.

LONDON MEDICAL RECORD REPORT.

MISTURA PEPSINÆ COMPOSITA CUM BISMUTHO.

"This combination of Messrs. HEWLETT is one which has been extensively tested, and with good results. It is justly popular in the profession as a very valuable and effective combination. It serves not only to improve *apæpsia*, but to lessen the gastric pain and to facilitate difficult and painful digestion, without setting up any evils of its own. It is a very good crutch for persons of weak stomach to lean on."—January 15th, 1881.

C. J. HEWLETT & SON,

MANUFACTURING AND PHARMACEUTICAL CHEMISTS,

40, 41 & 42 CHARLOTTE STREET, LONDON, E.C.

[Established 1832.

DOUGLAS'S "UNIQUE" CONCENTRATED DRY EXTRACT OF MALT POWDER

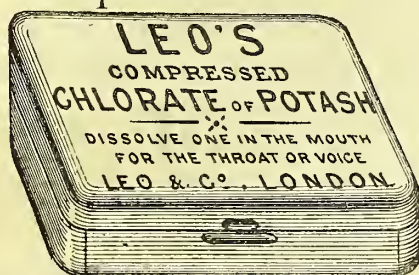
WHOLESALE AGENTS—
J. W. DRYSDALE & CO.,
4 BURY STREET, LONDON, E.C.

Price in Bottles (2.9) 24/ dozen, subject.
Sample bottle free by post 30 stamps.

WHOLESALE OF ALL MEDICINE VENDORS.

For further particulars *vide* CHEMIST
AND DRUGGIST, Oct. 30, pp. 584 & xl.

Compressed Chlorate of Potash & Chlorate of
Potash and Borax.



LEO & Co.,
LONDON.

Put up in elegant gilt boxes @ 1/6 doz., also in 1-lb. tins @ 1/6 each, net.

SUPPLIED BY ALL WHOLESALE DRUGGISTS. (SPECIFY LEO)

A sample dozen boxes will be sent, postage paid, to any Chemist, on receipt
of 1/9 in stamps, or 1-lb. tin, 2/-.

1-lb. tins,
1/6 net.

These afford the largest profit of any cheap Com-
pressed Goods in the Market.

Boxes,
1/6 dozen
net.

LEO & Co., 4, Bury Street, St. Mary Axe, E.C.

FOREIGN SPECIALITIES AND MEDICINES.

REVISED PRICE LIST.

ROBERTS & CO.,

FOREIGN AND ENGLISH CHEMISTS, WHOLESALE, IMPORT, AND EXPORT AGENTS FOR
FOREIGN MEDICINES AND PATENTS,

76 NEW BOND STREET, LONDON.

Messrs. Roberts & Co. beg to inform the Trade that they are Agents for all the principal French and Foreign Specialities and Medicines, a large supply of which they have always on hand, and can supply on very favourable terms. They are in daily communication with their Paris House, and can offer exceptional facilities for procuring New Medicines, &c., &c., with very little delay.

The following is a list of a few that they name *au hazard*, and that have a large sale:—

Retail	Per doz.	Retail	Per doz.	Retail	Per doz.	Retail	Per doz.
4/8.. Alcool de Menthe Ricques	41/5	4/8.. Capsules Matico	38/	2/3.. Guyot's Gondron	18/	7/0.. Rabuteau's Elixir Ferrug.	65/
2/9.. Ditto ditto	21/8	4/6.. " Raquin	36/	11/.. Laville's Gout Tincture	91, 10	2/9.. " Sirop	24/4
2/9.. Anbergier's Syrup	26, 3	4/6.. " Mathey Caylus	27/	11/.. " Pills	91, 10	4/0.. Racahout	31/
2/9.. " Pâte	15/4	4/6.. Obassaing's Wine	38, 9	2/3.. Papier Fayard	13/6	4/6.. Reynal's Bougies	37/10
6/3.. Bay Rum	57/	2/9.. " Pills	24/4	1/11.. Ditto	7, 3	2/9.. Ricord's Injection	24/4
5/3.. Ditto	31/	4/6.. Olin's Bromide Cam. Dragées	45/	4/.. Papier Fruneau	24, 4	4/6.. " Capsules	36/
2/.. Belloc's Charcoal	15/4	5/.. Eau Botot (Genuine)	40, 1	2/3.. Ditto	14/5	9/.. " Syrup	90/; 4/6; 42/
1/9.. " Lozenges	14, 5	3/.. Ditto	24, 4	1/9.. Pâte Anbergier	15/4	1/6.. Star Paper	11/
4/8.. Blancard's Pills	32, 5	2/6.. Kspic's Cigarettes	13, 6	1/9.. " de Berthé	15/4	2/9.. Vallet's Pills	22/6
2/6.. Ditto	18/	6/.. Elixir de Coca	56, 9	2/9.. " de Coca	24, 4	1/9.. Ditto	14/5
6/.. Brou's Injection	27/	2/9.. Flon's Syrup	22, 6	1/9.. " de Georges	14, 5	4/6.. Veloutine (White, Pnk, Yel.)	37/10
6/.. Bugeand's Wine	39/	2/.. Gayetty's Paper	15, 4	1/11.. Ditto	9/	3/6.. " ditto	27/
4/.. Bully's Vinegar	32, 5	2/3.. Granules Arsen. Acid	13, 6	1/6.. " de Nafé	13/6	2/9.. Vichot's Trochisques	21/8
2/.. Ditto	16/3	2/9.. " Iron	14, 5	1/9.. " Regnaud	14, 5	4/6.. Valentine's Meat Juices	38/
4/6.. Candé's (Lait Antéphil.)	39/8	2/9.. " Soda	15/4	7/.. Pierlot's Valerian	59, 5	4/6.. Vin de Coca Mariani	39/8
4/6.. Capsules Bromids Camph.	45/	2/9.. Grimault's Syrup Lime	23/5	2/9.. Rabuteau's Dréges Ferrug	24/4		

Special Quotations in large quantities.

MM. Roberts & Co. ont l'honneur d'informer MM. les Pharmaciens Spécialistes de France et de l'Étranger qu'ils se mettent à leur disposition pour des dépôts qu'ils voudraient établir à Londres. On peut avoir tous renseignements en s'adressant à leur maison de Londres ou à Paris.

SPECIAL AGENTS FOR MARIANI'S ELIXIR, EXTRACT PATE, PILLS, SYRUP AND WINE OF COCA, AND FOR VALENTINE'S MEAT JUICE
AND LE GRAND'S ORIZA PERFUMERY.

Established] House in Paris. ROBERTS & CO., Rue de la Paix 5. [1823.

WYLEYS' GELATINE COATED OVAL PILLS.

The only Gelatine Coated Oval Pills of ENGLISH MANUFACTURE in the Market. Special List of REDUCED PRICES on application.

POWDERED DRUGS. All ground in our own Mills, and of Guaranteed Purity.

EXTRACTS (ENGLISH).

CONCENTRATED INFUSIONS AND DECOCTIONS. GRANULAR EFFERVESCENT PREPARATIONS.

GELATINE COATED HORSE BALLS (PATENTED).

Forwarded on application { **PRICES CURRENT, LIST OF SPECIALITIES, PILL LIST (GELATINE OR PEARL COATED).**

WYLEYS & CO., COVENTRY.

LONDON ADDRESS—1a BURY STREET, ST. MARY AXE, E.C.

COMPOSITION ESSENCE.

"RAIMES & CO."

VERY SUPERIOR IN AROMA AND STRENGTH TO THE PREPARATION USUALLY SOLD.

The following favourable opinions are from those who have tried it:—

Mr. F. JOHNSON, Chemist, Barnsley: "Gives every satisfaction to my customers."

Mr. BASKER, Chemist, Sheffield: "Excellent quality, and well liked by my customers."

Messrs. NEEDHAM BROS., Chemists, Huddersfield: "Our customers speak very highly of it."

Mr. S——, Chemist, M——: "Gives great satisfaction. I consider it is a very excellent preparation."

Mr. G. WALKER, Chemist, Dewsbury: "I introduced your Composition Essence last winter, and am much pleased with the result."

1/1 per lb. in W. Quarts, 5 per cent. discount; 11d. per lb. net for 1 cwt.

RAIMES & CO., Wholesale Druggists, YORK, & EDINBURGH.

DUNCAN, FLOCKHART & CO.,
WHOLESALE AND EXPORT DRUGGISTS, EDINBURGH.

CHLOROFORM,

Prepared from Pure and Methylated Spirit.

Put up in all sizes of bottles. A strap with Name and Trade Mark of the Firm is placed over the stopper of each bottle. For Export, in bottles corked and luted (stoppers attached), and in hermetically sealed flasks when required.

N.B.—We guarantee our Chloroform prepared from METHYLATED SPIRIT to be PURE CHLOROFORM, answering all the tests of the British Pharmacopœia.

CASCARA SAGRADA CAPSULES,

In Boxes, at 1/6 and 2/6. 14/- and 24/- per dozen.

Each Capsule equal to half a teaspoonful of Fluid Extract of Cascara Sagrada. The chief drawback to the use of this valuable drug, its unpleasant bitterness, is obviated when taken enclosed in Capsules.

PAPAIN FINKLER. THE NEW DIGESTIVE FERMENT.

USES.—INTERNALLY: In Dyspepsia and Gastralgia. Geo. Herschel, M.D. Lond., writes in the *British Medical Journal*, April 3rd, 1886:—"I find it chiefly valuable in (1) the Chronic Stomach Catarrhs of Children, (2) Acid Dyspepsia, and (3) Severe Gastric Pain coming on shortly after eating."

EXTERNALLY: It has been used by Bouchut in cutaneous carcinoma, Rossbach for dissolving the false membranes of Diphtheria (see *Zeitsch. für Klin. Med.*, vi. H. 6), by Jacoby of New York for the same purpose, and recently Prof. Finkler himself has restored patency to an œsophagus occluded by carcinoma by the continuous administration of a solution.

Manufactured by Dr. FINKLER & CO., Godramstein (Palatinate).

SOLE AGENT for the United Kingdom and Export—

B. KÜHN, 36 St. Mary-at-Hill, LONDON; & 55 Bloom Street, MANCHESTER.

SUPPLIED BY ALL WHOLESALE DRUGGISTS.

Specify "FINKLER" in your prescription, as other makes of Papain have different effects.

OIL LEMON.	BURGOYNE, BURBIDGES, CYRIAX & FARRIES,  ESTABLISHED OVER 140 YEARS.	FLUID EXTRACTS.
PEPSINE.		ORGANIC CHEMICALS FOR RESEARCH.
TEREBENE.		PETROGELL.
TINGTURES AND SPIRITS IN BOND.		PEPTOLEINE.
ACID HYDRROBOMIC CONC. 1-3.		RED CROSS LINT.
ACID SALICYLIC.	WHOLESALE DRUGGISTS, MANUFACTURING CHEMISTS, Importers of Drugs, Essential Oils, and Chemicals. PRIZE MEDALS— Paris, 1867; Paris, 1878; Calcutta, 1884. PRICE LISTS, SAMPLES, &c., UPON APPLICATION.	MOXON'S MAGNESIAN APERIENT.
LIQ. BISMUTH c. PEPSINA.		
SOLUBLE ESSENCES FOR CONFECTIONERY AND MINERAL WATER MAKING.		
	16 COLEMAN STREET, LONDON, E.C.	

ACID. ACETIC., B.P., ACID. ACETIC. 1·040. Guaranteed made from Soda.
PEROXIDE of HYDROGEN, for Bleaching Feathers, Hair, Silk, Jute, Ivory, Bone, &c.
CRETA PRÆCIP. Very White, Soft, and Light.

PHOSPHORIC ACID, B.P. strength and concentrated, Pure and Free from Arsenic.
LIQ. FERRI PERCHLOR. FORT., B.P. Free from Arsenic, and Soluble in Spirit.
HYPOPHOSPHITES of LIME, SODA, &c. CYANIDE of POTASSIUM.

Ferri et Ammon. Cit., Ferri et Quiniæ Cit., B.P., and other Scale Preparations.

DUNN & CO., Stirling Chemical Works, WEST HAM, LONDON.

MORRIS & CALLARD,
 PONTAMMAN CHEMICAL WORKS,
 AMMANFORD, R.S.O., CARMARTHENSHIRE,
 MANUFACTURERS OF
ACETIC ACID, P.B., ACETIC ACID FORT, SP. GR. 1·040,
ACETATE OF SODA,
NAPHTHA, SULPHURIC ACID, AND CHARCOAL.

PRICES AND SAMPLES ON APPLICATION.

GOLD MEDALS,
INTERNATIONAL INVENTIONS EXHIBITION, LONDON, 1885.
INTERNATIONAL EXHIBITION, PARIS, 1885.
INTERNATIONAL EXHIBITION, LIVERPOOL, 1886.

IMPROVED HIGH TEST
BICARBONATE OF SODA,
SODÆ BICARB. PULV.

CRYSTAL CARBONATE

The Best Preventative of Boiler Incrustation, and the **PUREST**
 and **CHEAPEST** form of

SODA CRYSTALS.

One Ton of Crystal Carbonate contains as much Alkali as 48 cwt.
 of Soda Crystals.

Price of ONE TON of

CRYSTAL CARBONATE,

F.O.R. WIDNES,

£5 1s. 6d.

Price of 48 CWT. of

SODA CRYSTAL,

F.O.R. WIDNES,

£7 4s. 0d.

GASKELL, DEACON & CO.,
WIDNES, ENGLAND.

EVANS' FLUID EXTRACTS.

1 OZ. = 1 OZ. OF THE DRUG.

These are prepared by elaborate processes, with the menstruum most suited to each individual drug: in odour and taste they well represent the crude drug, and in strength they contain the *whole* of the active medicinal properties.

Infusions, decoctions, tinctures, wines, and syrups can be at once obtained from these fluid extracts, by simply mixing one minim for every grain of the drug ordered. This is perhaps the most perfect method of making such preparations of an accurate strength.

They are put up in astinic glass bottles of 5, 10, and 20 fluid ounces, capsuled, with a large gold front label: a special feature, to assist in dispensing, is the back label, containing full scientific names, botanical origin, description, medical properties, dose, strength, active ingredients, &c., &c.

Complete list of about 100 kinds, with prices, free on application.

EVANS, LESCHER & WEBB,

60 Bartholomew Close,

LONDON.

EVANS, SONS & CO.,

56 Hanover Street,

LIVERPOOL.

MANCHESTER, BIRMINGHAM, MONTREAL, PARIS, SYDNEY,
AND VICTORIA, BRITISH COLUMBIA.

Their Expert List, Spanish and English, forms an excellent
Advertising Medium for Proprietary Articles. Circulated to the
Trade in every quarter of the Globe. [4]

SPECIALITIES—

Abietis. Cloves,
Almonds.
Absynth.
Aniseed.
Angelica.

Estab. 1838.

DISTILLER OF ALL
ESSENTIAL OILS,
ESSENCES, AND ETHERS.

EDWARD BÜTTNER, LEIPSIK.

FOR SAMPLES AND QUOTATIONS APPLY TO

Mace.

Calamus.

Juniper Berries.

Fennel Seed.

Mustard. Nutmegs.

BERNSTEIN & VOGT,

SOLE WHOLESALE AGENTS,

28 Jewry St.,

LONDON,

E.C.

Celery.

Linaloe.

Patchouly.

Pine Sylvestris

Sandal Wood.

Cognac Artifo.

Sole Wholesale Agents,
SPECIALITIES—
ACIDS: Benzoic, Gallic
PYROGALLIC, Tannic.
Iodine, Iodoform, Iodides of Alkalies.

DR. HEINRICH BYK, BERLIN.

Bromine, Bromides of Alkalies. Chloralhydrate,
Silver Nitrate, Salts of Gold, Oxalate
of Potash, Pyroxylin.

Correspondence with the
Colonies invited.

28 Jewry Street.

BERNSTEIN & VOGT,
LONDON, E.C.

Hooper's Potassium Pellets. BEST IN MARKET. Most attractively put up. Numerous varieties stocked and any combination made.	Very handsome 1-lb. tins CHLORATE OF POTASH PELLETS, FOR COUNTER USE, 2/ or post free 2/4. Well shown, a good and profitable sale is certain. And in attractive 6d. and 1/ boxes. 2/4 doz. ALWAYS ASK FOR "HOOPER'S."	Hooper's Flexible Capsules. Sell freely. Very attractively got up. Absolutely pure. Always give satisfaction. We fill any combination in Oil, Paste, or Powder.	1 doz. handsome circular boxes COPAIBA CAPSULES, 30 in each, 7/6 per doz. Loose, 10/6 per 1,000. 1 doz. neat round boxes ENGLISH SANDAL OIL, 24 in each, 16/6 per doz., or 32/6 1,000. WRITE FOR DETAILED PRICE LIST.
---	---	---	--

BARTLETT HOOPER & CO., MANUFACTURING CHEMISTS,
43 KING WILLIAM STREET, LONDON BRIDGE, E.C.

INJECTION DAY.

An Infallible Remedy and Certain Cure

IN ALL

URINARY DISCHARGES.

BOTTLES 2/6 EACH.

Depot: J. MUNDAY, Chemist, Cardiff.

London: F. NEWBERRY & SONS, 1 King Edward St., E.C.

Melbourne—FELTON, GRIMWADE & CO.; ROCKE,
TOMPSITT & CO. Sydney—ELLIOTT BROS.

38

DENOVAL'S MEDICINAL CAPSULES ARE THE BEST AND CHEAPEST.

Attention is called to the following articles:—

	Trade Price.	Retail
Peruvian Mixture Capsules.....	10/ & 7/6	3/ & 2/
Matico Oil and Copaiba do.....	11/	2/6
Santal Oil do. (30 in each box).....	23/	4/
Cubeb Oil and Copaiba do.....	3/6	2/6
Copaiba, Cubeb Oil, and Santal Oil do.	15/6	3/6
Copaiba Capsules, No. 0.....	5/9	1/6
" " No. 1.....	5/6	1/3
" " No. 2.....	5/1	1/
Copaiba, Alum and Cubeb.....	5/9	1/6
Compound Ferruginous.....	5/9	1/6
Cubeb Oil.....	23/	4/
Male Fern Oil.....	10/6	3/
Cod Liver Oil.....	5/9	1/6
Castor Oil.....	5/6	1/3
Denoual's Injection (to insure a radical cure in two days).....	18/	2/9

ALL DRUGS WARRANTED TO BE GENUINE.

JULES DENOVAL,
Carlton House, 4 New Cross Road, London, S.E.

JAMES WOOLLEY, SONS & CO.,

Drug Millers, Wholesale and Export Druggists,

AND

MANUFACTURING · PHARMACEUTICAL · CHEMISTS.

~ SPECIALITIES. ~

Spirit of Nitrous Ether.

Guaranteed of Official Strength.

Aromatic Spirit of Ammonia.

Distilled from Volcanic Ammonia.

Assayed Opium, Cinchona, and Scammony,

Their Powders and Preparations.

The "Extra Pale" Cod Liver Oil.

Free from fishy odour. Unchanged at 32° F.

Dalmatian Insect Powder.

From Unopened Flowers, free from added colouring matter.

Tasteless Coated Pills.

Soluble in cold water.

Pure Crushed Linseed.

Ground from Screened Seed.

Pure Yellow Beeswax, in Bars.

M.P. 149° F.

Soluble Essences of Ginger, Lemon, &c.,

For flavouring Aërated Waters.

Emulsified Cod Liver Oil.

With Hypophosphite of Lime.

Minerolin (Mineroleum).

A pure Hydro-Carbon Ointment Basis.

Levigated Ointments

By Steam Power.

DEALERS IN DRUGGISTS' SUNDRIES.

CHEMICAL AND PHARMACEUTICAL APPARATUS AND SURGICAL INSTRUMENTS.

PROPRIETORS OF

"The SANITARY ROSE POWDER," the "BOVAL" TOILET PREPARATIONS, &c.

Drugs and Chemicals Ground for the Trade.

Warehouse and Offices: 2 & 4 Swan Court, Market St.; Laboratories and Drug Mills: Knowsley St., Cheetham,

MANCHESTER.

Prices Current and Catalogues on demand. Special quotations to large buyers. Telegrams—"PHARMACY MANCHESTER."

BURGESS, WILLOWS & FRANCIS,

Wholesale & Export Druggists

AND

MANUFACTURING PHARMACEUTICAL CHEMISTS

WHITE HORSE BUILDINGS,

101 HIGH HOLBORN, LONDON.

ESTABLISHED 1751.

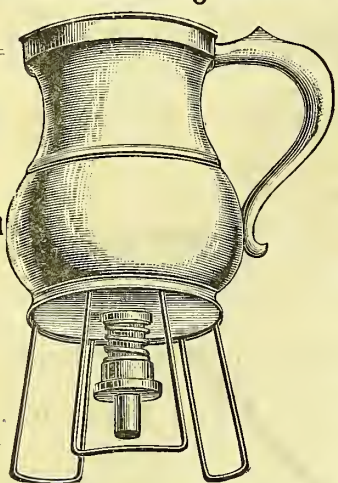
DRUGS, CHEMICALS, AND PHARMACEUTICAL PREPARATIONS.

PRICE LISTS ON APPLICATION.



**HOW TO AVOID
DAMAGE! DANGER!! DIRT!!!
USE
Maud's Patent Self-Acting Measure & Funnel.**

So simple
in its
construction
it cannot
get out of
order.



It can be
washed
and
cleaned in
five
minutes.

By the use of the above simple apparatus not only is all waste and danger prevented, but where a number of Bottles require filling at one time, a very great saving of time and labour is effected.

Messrs. OLDFIELD, PATINSON & Co., Wholesale Chemists, Manchester, write to say that their hands can do nearly half as much more work in the same time as by the old funnel process. To those selling petroleum, or other offensive liquids, its use will prove a great boon, as there is no need to soil the hands in measuring. Made in Tin, Copper, Pewter, Glass, &c., at prices varying from 2/6 the pint measure.

PATENTEE AND MAKER,

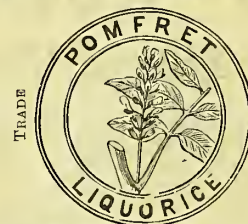
W. R. MAUD, PONTEFRAC, YORKSHIRE.

Particulars and prices on application.

PROFITABLE! SALEABLE! EFFICACIOUS!

THE GENUINE

Compound



Liquorice.

WORM CAKES.

(Trade Mark and Title Registered.)

The above preparation for Children, made to sell at **One Penny** each, is the most perfect article of its kind offered. Children eat them with the greatest avidity, and their success is unfailing. Each cake is enclosed in a small parchment envelope, with full directions. Put up in neat Counter Boxes containing 3 dozen cakes each.

Price, 6/ per gross.

In quantities of 10 gross own name attached without extra charge.

Samples sent free on application.

MANUFACTURED BY

W. R. MAUD, Chemist, Pontefract, Yorkshire.

**JUST ARRIVED, EX QUAY.
SPLENDID CROP.**

THE

**NEW AMERICAN OIL OF PEPPERMINT,
NOT deprived of its Menthol, 10s. 6d. per lb.**

In Original 22-oz. bottles. PACKAGES FREE.

If Order is accompanied by P.O.O. for 15s., the Mint would be forwarded per Parcel Post, and so save the Carriage.

CHILIAN HONEY— $\frac{1}{2}$ -cwt. tins, 3d. per lb.

Non-freezing, Finest Norwegian COD LIVER OIL, guaranteed premier quality; 25 gallon tin-lined barrels for £4 10s., or in $\frac{1}{2}$ -gallon tins at 4s. per gallon.

DRUGGIST'S WHITE GLYCERINE, 12·60—7 $\frac{1}{2}$ d. per lb., 60-lb. tins (expected to be dearer).

ESS. LEMON (NEW)—4s. 6d., 10-lb. tins.

CITRONELLE AND LEMON GRASS OILS—24-oz. bottles, 3s. 6d. per bottle.

P. RHEI, E.L. ELECT.—7-lb. bottles, 3s. per lb.

SENNA T.V.—56-lb. bags, 3 $\frac{1}{2}$ d.; and 2-cwt. bales, 3d. per lb.

NOTE.—All PACKAGES FREE, and delivered to RAILS FREE.

CIRCASSIAN OIL—40-gallon barrel, bright and clear as **COLZA OIL**—1s 6d. per gallon (for Hair Oil, &c.); sample 9-gallon tin, for 15s.

Special—PETRO. JELLY (firmer than VASELINE)—4d. per lb., 40-lb. tins.

GRANULAR EFFERVESCENT CITRATE OF MAGNESIA—at 8d. per lb., for not less than 28 lbs.

MARANHAM BALSAM CAPIVI—1s. 8 $\frac{1}{2}$ d. per lb., in 14-lb. tins (only a few left).

CRYSTAL MOUNTED MENTHOL CONES, in 1-gross cases for 20s., mounted in dozens on an attractive Card.

GOOD MERCHANTABLE QUALITY GUARANTEED.

E. R. BANNER, Drug Merchant, 56 Boaler St., LIVERPOOL.

The Chemische Fabrik auf Actien, vormals E. Schering, Berlin, MANUFACTURERS OF SCHERING'S PURE CHEMICALS

PARTICULARLY OF

ACID, GALLIC -- -- --	Almost white needles ... --	Freely and entirely soluble in alcohol or water.
„ PYROGALLIC -- --	Bi-sublimed, white, bulky ...	Ditto ditto ditto.
„ SALICYLIC (Kolbe's)	White, powder, crystallised, and dialysed	Dissolves colourless in water or alcohol; purest for medicine.
„ TANNIC -- -- --	Lightest crystals ... --	Dissolves almost colourless in water, alcohol, and ether.
„ „ -- -- --	Powder and granulated ... --	Dissolves freely in water, alcohol, and ether.
CELLOIDINE (Patent) -- --	Gelatine plates ... --	Purest Pyroxylin; inexplusive.
CHLORAL HYDRATE -- --	White cake and crystal ...	See Liebreich's, below.
CHLORAL HYDRATE (Liebreich's)	Transparent rhomboidals (facsimile of Dr. Liebreich's)	Will not decompose by age.
CROTON CHLORAL -- --	Shiny crystalline scales. (Powder form most objectionable)	Free from foreign chlorides.
GLYCERINE -- -- --	S.G. 1260, double distilled, brilliantly white, odourless; also lower S.G. and qualities	Free from lime, chlorides, metals; will stand severest chemical tests.
IODINE -- -- --	Resublimed, fine scales ... --	Purest.
IODOFORM, Absolut. -- --	Crystals and powder of soft touch ...	Purest; made by electrolysis.
PARALDEHYD		Absolutely purest.
POTASS. BROMIDE ... --	Fine white dry regular crystals ...	Perfectly free from iodide, and the most free from chloride.
„ PERMANGANATE	Large and small crystals ... --	Chemically pure.
„ IODIDE -- --	Fine white dry regular crystals ...	Apply Barytic and other tests. This will never change colour.
SODA SALICYLATE, and other Salicylates	White powder and crystals ...	Freely soluble in water and alcohol.

H. FINZELBERG, of Andernach-on-Rhine.

ERGOTINE, pure Dialysed ...	Brown colloid, purified by Dialysis	Free from all saline matter present in the ordinary Ergotine and extracts.
FERRUM OXYD. (5% Dialysed)	Transparent brown liquid, purified by Dialysis	Free from all saline matter. Diluted by ten times its weight of water, will stand the test of Nitrate of Silver.
PEPSIN PORCI (100%)	White, sweet, odourless powder --	Freely soluble in water, not hygroscopic, and will not deteriorate; will dissolve (by Wittstein's test) 100 parts of white of egg and 250 parts of fibrine.

CONRAD ZIMMER, of Frankfurt-on-the-Main.

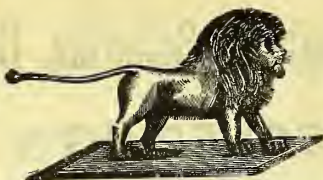
QUININE, Sulphate	Whitest and most bulky crystals ...	Utmost purity warranted.
„ Muriate	„ „ „ ...	„ „ „

SOLE WHOLESALE AGENTS—

A. & M. ZIMMERMANN, 27 MINCING LANE, LONDON, E.C.

For Quotations, &c., apply to Wholesale and Export Drug and Chemical Houses.

TRADE MARK
REGISTERED
OVER ALL THE
GLOBE.



E. BURGESS' LION OINTMENT AND PILLS

Cure the worst and most obstinate cases of Ulcers, Abscesses, Cancers, Tumours, Polypi, Carbuncles, Piles, Poisoned Wounds of all kinds (including Dog and Venomous bites), and every form of Eruption and Skin Disease; also Ulcerated and Cancerous Affections peculiar to Females, without the aid of Lancet or Knife.

Numbers have been cured after leaving various London Hospitals as incurable, or curable only by amputation. Photographs of Cases Cured, neatly framed for exhibition, Transparencies, Bills with Name, &c., forwarded direct or through any Wholesale House. Plenty of Advertising Matter supplied to Chemists willing to push the sale.

SPECIAL NOTICE TO AUSTRALIAN CHEMISTS.—Messrs. Lynch & Co., of Melbourne, have in stock a supply of these remedies, one box of which will ensure a sale by proof of efficacy.

The Ointment is put up in air-tight grease-proof boxes, and will keep good any length of time in any climate. The Pills are in stout wooden boxes, and also retain their virtue for years. **Prices, 1s. 1½d., 2s. 9d., 4s. 6d., 11s., and 22s. each. Usual Wholesale Terms.**

E. BURGESS, 117 High Holborn, and Kingsgate Street, LONDON, W.C.

MORISON'S PILLS, POWDERS AND OINTMENT.

The most Safe, Efficacious, and Prompt **VEGETABLE MEDICINE** for Family Use.
COMPOUNDED OF THE PUREST VEGETABLE INGREDIENTS ONLY.

FIFTY-FIVE YEARS OF UNINTERRUPTED SUCCESS.

Pills in Boxes at 7½d., 1s. 1½d., 2s. 9d., 4s. 6d., and 11s. Powders, 1s. 1½d. Ointment, 1s. 1½d. and 2s. 9d.

Wholesale: BRITISH COLLEGE OF HEALTH, 33 Euston Road, London;
And of the Principal Chemists and Druggists throughout the Kingdom.

WITHOUT A RIVAL!

From the time Medicine was first discovered by the Ancients down to the present none ever made such progress as

BEECHAM'S PILLS.



They stand without a rival, and have by far the largest sale of any Patent Medicine in the World. This is a fact which every business man is bound to admit.

All Foreign Dealers will find **BEECHAM'S PILLS** the most Saleable Medicine in the Market.

The health-restoring and life-giving properties of these Pills are such as to increase their demand every year.

The words "**BEECHAM'S PILLS, SAINT HELENS,**" are on the Government Stamp affixed to each box.

Prepared only and sold by the Proprietor, **THOMAS BEECHAM, ST. HELENS, LANCASHIRE, ENGLAND,** in boxes at 1s. 1½d. and 2s. 9d. each, with full instructions for use.

Dr. J. COLLIS BROWNE'S CHLORODYNE.

THE ORIGINAL AND ONLY GENUINE.

IMPORTANT CAUTIONS

From Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD,
and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that 'Dr. J. Collis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as deliberately untrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital.'

The VICE-CHANCELLOR also stated, 'that Chlorodyne was a fanciful name, and had application been made sooner, the Court would have given Dr. Browne protection.'

LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated 'that had application been made at a proper time and place, the Court would have found means to restrain the Defendant from misrepresenting the decision of the Vice-Chancellor.'

LORD JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misrepresentation of the decision of Vice-Chancellor Wood.'

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the *Times*, November 14th, 1865, speaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never used any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant publishes the said testimonial as referring to his medicine.

The Editor of the *Medical Times*, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne referred to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published by the Defendant as testimony to his medicine.

Numerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the inventor of Chlorodyne, and that when prescribing they mean no other.

The Defendant himself publishes that his compound is in effect and composition quite different to any other preparation; nevertheless he assumes the name, testimonials, &c., of Chlorodyne.

Technicalities in law prevent that protection which the public should justly have against such a course of conduct. It is now incumbent on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on the Government Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts at analysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

FURTHER IMPORTANT NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement in Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlorodyne, or the Original Chlorodyne, is ordered, they invariably supply Dr. J. Collis Browne's:—



ONLY GENUINE.

Apothecaries' Hall, London	Frazer & Green, Glasgow	Morson, T. & Son, London
Allen, Hanbury & Co., "	Gale & Co., London	Newbery & Sons, London
Baiss Brothers, "	Giles & Son, Clifton	Oldham, G., & Co., Dublin
Banks & Richards, Birmingham	Goulding, Messrs. Cork	Parsons & Richardson, Leicester
Barron, Harvey & Co., London	Gratton & Co., Belfast	Peake, Allen & Co., Dublin
Bell, John, & Co., "	Grimwade, Ridley, London	Raines & Co., York
Bourne & Taylor, "	Grindley & Son, Chester	Raines & Co., Edinburgh
Corbyn & Co., "	Hearon, Squire & Francis, London	Sang & Barker, "
Cox & Gould, "	Hodgkinson, Tonge & Stead, "	Sanger, J., & Sons, London
Curling & Co., "	Hopkins & Williams, "	Sim, James, & Co., Aberdeen
Curtis & Co., "	Hovenden, R., & Sons, "	Smeeton, W., Leeds
Davy, M'Murdo & Co., "	Hunt & Co., Exeter	Southall & Co., Birmingham
Dobbin, W., & Co., Limited, Belfast	Hunt, A., & Co., "	Sutton, W., & Co., London
Drew, Barron & Co., London	Johnson, J. H. & S., Liverpool	Tomlinson, Hayward & Co., Lincoln
Drew, B., & Alexander, "	Langton, W., & Co., London	Treacher, Hodgkinson & Co., "
Dunn & Company, "	Lynch & Co., "	Westrup, J. B., Kensington
Edwards, W., "	Mander, Weaver, Wolverhampton	Westwood & Hopkins, Lincoln
Evans, Gadd & Co., Exeter	Marsden & Sons, London	Woolley, James, Manchester
Evans, Lescher & Webb, London	Maw & Son, "	Wyleys & Brown, Coventry
Ferris & Co., Bristol	Meggesson & Co., "	Yates & Co., London
Foulger, S., & Son, London	Mackay, John, & Co., Edinburgh	

After these public statements in a Court of Equity, and subsequent confirmation by the trade at large, no Chemist can conscientiously use or sell any other compound for Chlorodyne without committing a breach of faith, unjust to patient and physician. The value of the remedy alone creates the great demand.

Sold in Bottles—1s. 1d., 2s. 9d., 4s. 6d., and 11s. Usual Discount to the Profession.

SOLE MANUFACTURER,

J. T. DAVENPORT, Pharmacist,

88 GREAT RUSSELL STREET, BLOOMSBURY SQUARE, LONDON.



PURE WOOL FAT, CHOLESTERINE FAT.

(OLEUM LANÆ.)

Free from Odour. Free from Water.

The pure oil of sheep's wool is used as a penetrating oil, taking the place of lard and vaseline from its well-known softening properties, and, as it never becomes rancid, will keep indefinitely in any climate. It is valuable as a soothing remedy for

BURNS, WOUNDS, SPRAINS, and all SKIN DISEASES.

FOR VETERINARY USE.—It cannot be surpassed for **Harness Galls, Flesh Wounds, Scratches, Sand Cracks, Cracked Teats, Mange, Ringbone, and Contraction of Muscles.**

Any powder (like sulphur), chemical (carbolic acid or saltpetre), oil, tincture, or essence can be incorporated with it. Over its own weight of water can be added to it and still make a smooth, firm ointment.

Sample pounds sent by mail on receipt of 3s.

THEODORE METCALF & CO.,
39 Tremont Street, BOSTON, MASS., U.S.A.

NEW YORK AGENCY—

[11]

E. FOUGERA & CO., 30 North William St., New York, U.S.A.

PROCTER'S LIQUID GLUE PROCTER'S A PERFECT CEMENT. MENDS EVERYTHING:

Wood, Glassware, China, Earthenware, Crockery,
Porcelain, Leather, Coral, Celluloid, Ivory, &c.

LARGEST BOTTLE.

BEST VALUE.

No preparation or heating required. Always ready for use.

AGENT—

WILLIAM YOUNG, 42 Cheapside, LONDON, E.C.

J. H. WINKELMANN & CO., Proprietors,
BALTIMORE, Md., U.S.A.

The Mormon Elder's DAMIANA WAFERS.

The most Powerful

INVIGORANT

Ever Produced.

Permanently Restores those
Weakened by Early Indiscretions.
Imparts Youthful Vigor. Re-
stores Vitality. Strengthens and
Invigoretes the BRAIN & NERVES.
A Positive cure for **IMPOTENCY**
& Nervous Debility. Prompt, Safe
and Sure. 4s per box, 6 for 20s.
mailed to any address in the World
on receipt of price, *Send for Circular*

ADDRESS

F. B. CROUCH,

222 Grand St., New York.

European Agents—THOMPSON, MILLARD & CO., Curtain Road
and Holywell Lane, London, E.C.



EDWARD MAYHEW, WHOLESALE AND RETAIL CHEMIST & DRUGGIST, Fremantle and Perth, WESTERN AUSTRALIA, Is prepared to accept AGENCIES for NEW SPECIALITIES, PATENT MEDICINES, DRUGGISTS' SUNDRIES and PERFUMERY, &c.

CORRESPONDENCE SOLICITED. SAMPLES MAY BE SENT FOR ENCLOSURE TO
J. C. LANYON, Esq., 27 Gresham House, Old Broad Street, LONDON.

AMERICAN MEDICINAL ROOTS, HERBS, BARKS, &c., &c. FOR EXPORT.

PEEK & VELSOR, 9 Gold Street,
NEW YORK CITY, U.S.A.
WHOLESALE EXPORT BOTANIC DRUGGISTS.

ALWAYS IN STOCK, PRIME GRADES OF:—

Golden Seal Root . . .	Hydrastis Canadensis
Mandrake	Podophyllum
Pink	Spigelia
Bayberry Bark . . .	Myrica
Blood Root	Sanguinaria

ESTABLISHED 1840.

Black Root	Leptandra
Elm Bark	Ulmus
Hemlock Bark	Pinus
Seneca Root	Senega
Snake Root	Serpentaria.

Cascara Sagrada, Grindelia, Yerba Santa, Damiana, Ava Kava, and all Central American and South
American Drugs, crude and prepared to order.

SPECIALITIES—RARE DRUGS.



FREEMAN'S CHLORODYNE



THE ORIGINAL AND ONLY TRUE.

It is the Greatest Medical Discovery of the present Century, and is regarded as a boon to mankind.

It is the best known remedy for Coughs, Colds, Consumption, Whooping Cough, Bronchitis, and Asthma.

It effectually checks and arrests those too often fatal Diseases—Diphtheria, Diabetes, Fever, Croup, Ague, &c.

It acts like a charm in Diarrhoea, and is the only known Specific in Cholera and Dysentery.

It effectually cuts short all attacks of Epilepsy, Hysteria, Palpitation, Convulsions, and Spasms.

It is the only Palliative in Rheumatism, Gout, Cancer, Toothache, Neuralgia, Sciatica, Lumbago, &c.

It rapidly relieves pain from whatever cause, allays the irritation of Fever, soothes and strengthens the system under exhaustive diseases, restores the deranged functions, stimulates healthy action of the secretions of the body, gives quiet and refreshing sleep, and marvellously prolongs life. It may be taken by old and young at all hours and times, according to the Directions.

It is extensively used by Medical Men in their official and private practice, at home and abroad, who have given numerous written testimonials of its wonderful efficacy.

SPECIMEN TESTIMONIALS.

From JOHN TANNER, M.D., L.R.C.P., M.R.C.S., L.S.A., L.M., Physician to Farringdon Dispensary, London; Physician to the Rev. C. H. Spurgeon's Metropolitan College, &c.

102 HARLEY STREET, CAVENTISH SQUARE, W.

'It gives me great pleasure to hear testimony in favour of FREEMAN'S Chlorodyne. I have prescribed it extensively, and in cases of Asthma, Chronic Bronchitis, the last stage of Phthisis, and the Winter Cough of the aged, I have never found any substitute or chemical combination its equal.'

From J. DODD SWALLOW, M.D., M.R.C.S., Eng.; L.A.S.; Medical Officer to the London City Missions, &c., &c.

213 CLAPHAM ROAD, LONDON, S.W.

'I have great pleasure in stating that I am constantly prescribing FREEMAN'S Chlorodyne. In Consumption and Asthma, as a Sedative; in Cancer, and in cases of Diarrhoea and Dysentery, I am daily witnessing its striking effects, and believe that the thanks of the profession are due to Mr. FREEMAN for his efforts to bring prominently before the profession so valuable and reliable a remedy as the Chlorodyne which bears his name.'

264 PETIT SAONNEX, GENEVA, SWITZERLAND, January 6, 1886.

DEAR SIR,—I send by same post £1 16s., or 46 francs, for 8 bottles, value 4s. 6d. each. Your Chlorodyne has been used in a case of Cancer, notorious at St. Leonards-on-Sea, where Dr. Penhall and Dr. Harvey attended, and the case was given up as incurable, for the leg ought to have been cut off, and the patient was too weak to stand operation. Now, Dr. Metcalfe said the same thing, and your Chlorodyne cured the person, which, indeed, is my servant, after six years being still alive and perfectly well. I think it is due to you, as the Inventor of the remedy, to state the fact, that others in similar circumstances may never despair as long as life is in the body. I authorise you to use my letter as you may think best, and also my name, to present people being humbugged by other rubbish, &c.

To Mr. RICHARD FREEMAN.

Yours truly,

WALTER SAVAGE LANDOR.

Sold by Chemists and Patent Medicine Dealers all over the world, in bottles, 1s. 1½d.; 2 oz., 2s. 9d.; 4 oz., 4s. 6d.; half-pints, 11s.; and pints, 20s. each; and by the Inventor, RICHARD FREEMAN, 70 Kennington Park Road, London, S.E.

Purchasers are cautioned not to have palmed upon them any substitute. See that the Trade Mark, "The Elephant," is on the wrapper, &c., and that the words Freeman's Original Chlorodyne are engraved on the Government Stamp, which is the only true Chlorodyne.

N.B.—Lord Chancellor Selborne, Lord Justice James, and Lord Justice Mellish decided in favour of Freeman's Original Chlorodyne, and against Brown and Davenport, compelling them to pay all costs in the suits. See Times of July 24, 1873.

Trade Notice.]



[Trade Notice.

ATKINSON & BARKER'S ROYAL INFANTS' PRESERVATIVE.

Established by 90 years' experience as a safe and effective Medicine.

Sold universally by Chemists and Patent Medicine Dealers.

WHOLESALE AND EXPORT ORDERS SUPPLIED FROM THE MANUFACTORY—

11 RUSSELL STREET, DOWNING STREET, MANCHESTER.

SHOW CARDS AND BILLS ON APPLICATION.

SEASON 1887.]

NORWEGIAN COD LIVER OIL.

[SEASON 1887.

The first sample shipment of New Non-congealable Oil from the Lofoden District has arrived. Samples and Quotations in original Barrels or Winchesters on application.

HERTZ & COLLINGWOOD, 101 Leadenhall Street, LONDON, E.C.

Sole Agents and Bottlers for Jensen's Cod Liver Oil (Iceberg Brand).

ESTABLISHED 1810.

H. BROOKS, PEEL & CO., COLLAPSIBLE TUBE MANUFACTURERS

PATENTEES AND SOLE MANUFACTURERS OF THE

PORTABLE METAL SPRINKLER STOPPER,

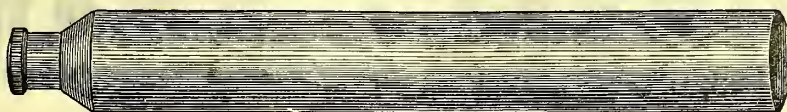
AND DEALERS IN

GLASS BOTTLES FOR PERFUMERS AND OTHERS.

STEAM FACTORIES:

31 Lime St., Camden Rd. (Offices), and Bartholomew Rd., Kentish Town, London, N.W.

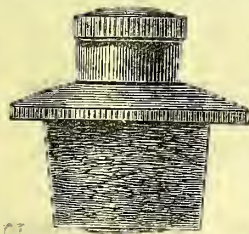
COLLAPSIBLE TUBES OF ALL SIZES.



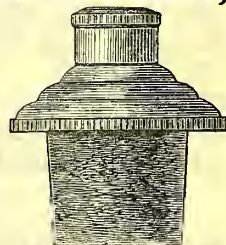
For Perfumes, Artists' Colours, Soaps, Cosmetiques, Creams, Oils, Varnishes, &c. These Tubes are inexpensive and portable, and may be applied to many useful purposes besides those above mentioned.

SOLE MANUFACTURERS AND PATENTEES OF

THE PORTABLE METAL SPRINKLER STOPPER,



With Cork fitted thereon for bottles of any size, and having apertures of various dimensions, especially adapted for Perfumes, Hair Washes, Lime and Glycerine Essences, &c. These handsome stoppers give a character and finish to the most ordinary bottles to which they may be applied. Gilt or plain; and put up if required in handsome glass lid boxes, suitable for shop counters and show cases, at moderate prices.



No. 18a.

THE "TORSION" PATENT SPRINKLER.

The two designs, Nos. 18a and 19a, are those to which we direct special attention, as sizes being in general use; other sizes will follow promptly to meet all requirements, on which Caps with two or more holes will be introduced to meet the public taste. Particular attention is called to the latest improvement in our Patent Metallic Stopper, the "Torsion."

This New Stopper adheres to the design of the original patent, which has been universally acknowledged as an ornamental and inexpensive article for the Toilette, as possessing all the advantages of a "Permanent and Indestructible Stopper, suitable for Bottles of all Sizes and Shapes," with the additional security it affords, that the Cap can never be entirely unscrewed, consequently it cannot be lost. It is specially effective as a Sprinkler, while giving a more prompt and copious, yet economic, supply, through the improved action of the Cap. Such combined advantages, in an article of exquisite finish, have long been desired, and it is thus submitted for general approval, and its usefulness when tried will be appreciated by all.

Illustrations, Price Lists, &c., can be had on application, or through any Wholesale House in town or country. All Orders received direct will be promptly attended to.

CAUTION.—All Stoppers of our Manufacture are made of Pure Tin, and have the name of H. BROOKS & CO. stamped on the under side of the rim.

All Tubes are made of Pure Tin unless specially ordered of Mixed Metal, from the smallest size up to 13 in. by 2½.



No. 19a.

TESTIMONIALS

FROM THE MARCHIONESS OF SALISBURY AND ALL THE ÉLITE.

NEXT TO HER BONNET-SHOP A LADY LOVES HER

CHEMIST'S

For the simple reason that all are gentlemen, and hence devoid of that fussy shoppiness that so often characterises the counterman.

From the Highest in the Land, ECONOMY is now being studied,

And from every Town and Village we are being asked for

ASPINAL'S ENAMEL

Which is made up in 2/6 and 1/3 Tins, in the following Colours:—

VERMILION.
FLAMINGO RED.
DARK RED.
ROYAL MAIL RED.
SEALING-WAX RED.
BLACK.
SAGE GREEN.
SMOKE. STRAW.
ORANGE. LILAC.

MYRTLE GREEN.
INDIAN YELLOW.
LIGHT OAK.
DARK OAK.
QUAKER BLUE.
WHITE. IVORY.
TURQUOISE. GREEN.
PEACOCK BLUE.
JAPANESE GREEN.

PEA GREEN.
BLUE. CANARY.
TERRA COTTA.
MAROON. STONE.
ELECTRIC GREEN.
CHOCOLATE.
BRONZE.
FAWN.
PRIMROSE.

ARABIAN BROWN.
OLD GOLD.
DRAB.
FRENCH GREY.
OLIVE.
CORAL (Pink).
HEDGE SPARROW'S
EGG TINT.
HELIOTROPE.

FOR PAINTING NEW AND RENOVATING OLD

WICKER CHAIRS, TABLES, STOOLS, PICTURE FRAMES, BRACKETS, AND VARIOUS
HOME ARTICLES.

We also supply 3/- and 1/6 Tins of Enamel in SNOW WHITE, EAU DE NIL, and WILD ROSE, for **BATHS.** This RESISTS BOILING WATER, and any Lady can apply it herself.

BARCLAYS, HOVENDENS, SANGERS, NEWBERYS, MAY ROBERTS & CO., and all LONDON Wholesale Houses keep it. Can be had in DUBLIN from SAMUEL BOYD, 46 MARY ST.; and in MANCHESTER from JAMES WOOLLEY, SONS & CO., 69 MARKET STREET; or from the Manufacturers—

ASPINAL, ASPINAL & CO.,
HOLLYDALE PAINT WORKS, PECKHAM, LONDON, S.E.

Lists of Colours and Testimonials, with the Vendor's Name and Address printed thereon, will be supplied Free of Cost by the Manufacturers.

H. A. GOODALL & CO.,

ESTABLISHED 1852,

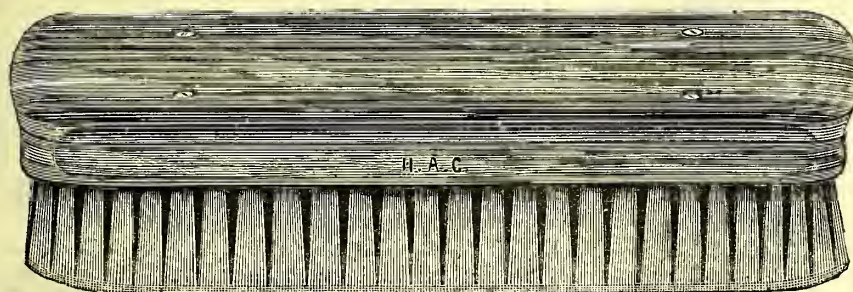
6, 7, 15, & 18 BARTLETT'S BUILDINGS, HOLBORN CIRCUS,

TELEGRAPHIC ADDRESS—
RENA LONDON.**LONDON,**BANKERS—
CITY BANK, LONDON.

ARE ONE OF THE BEST AND CHEAPEST MARKETS IN THE TRADE.

No Travellers sent out, but intending Cash Customers can have an Illustrated Price List on sending Business Card.

THE HOLBORN NAIL BRUSH.

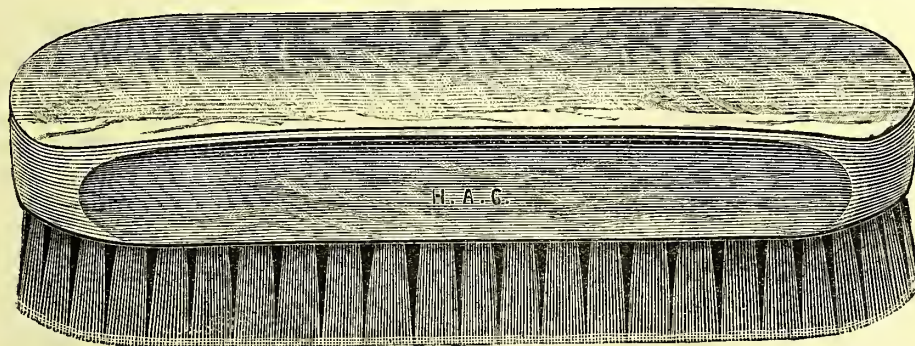


Boxwood, Fluted Sides,
Screwed Back, Best White
Fibre, and Cocoa Fibre
Middles with White Fibre
Outside Assorted.

4/3

PER DOZEN.

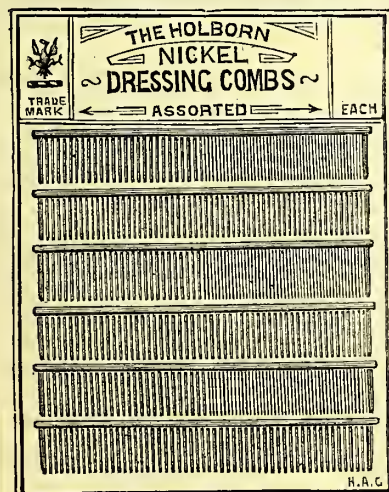
GOODALL'S JUBILEE NAIL BRUSH.



Solid Boxwood, with
Convex Back, Large
Hole Brush of Sorted
White and Cocoa Fibre.

5/6

PER DOZEN.



GOODALL'S NICKEL DRESSING COMBS.

The goods bearing our Trade Mark are of the very best possible finish; each tooth is drawn by machinery and let into a solid back, practically unbreakable.

7½-inch Dressing and Rake Combs, Assorted, on Handsome Lithographed Show Card,

3/8 PER DOZEN.

[2]

CARDIGAN POLISH REVIVER.

ONE SHILLING FLASKS, each containing **AN IMPERIAL HALF-PINT**.
HALF-BOTTLES, for Retailing at **SIXPENCE** each, of the same Distinctive Colour as the Flasks, and of
equally Attractive Appearance. **CASES CONTAIN—1 dozen Flasks or 2 dozen Half-Bottles.**

Materials of a Superior Quality ONLY
are used in our manufacture.

LABOUR SAVING.

TRADE MARK.

ECONOMIC.—Small quantity only required when
applied as instructed to Furniture on any other article
whose polish needs either reviving or **CLEANSING.**

Apply **WITHOUT** any previous washing of the surface, and **DO NOT RUB AFTER APPLICATION.**

CARDIGAN WORKS, FIELDGATE STREET, LONDON, E.

JAMIESON & CO.,

MANUFACTURERS OF

Harness Composition,

OIL PASTE & LIQUID

SHOE BLACKINGS,

Dubbin (Yellow & Black).

The above articles are made from the best ingredients only, and
have stood the test of time and of all climates.

Sold by all Wholesale and Retail Dealers throughout
the United Kingdom and Colonies.

LONDON, E.C.:
35 SKINNER STREET.

ABERDEEN:
WHITEHOUSE STREET.

SEDDON'S GELATINOUS OIL

Supersedes all others, and lasts ten times as long as ordinary Oils.

It is the best, most economical, and perfect lubricant ever produced for all kinds of Carriages, Omnibuses, Cars, Cabs, Carts, Rullies, Waggon, and
every description of Agricultural Implements, Steam Threshing Machines, Portable and Traction Engines, &c.

It is invaluable as a Healing Ointment, and for Skin Diseases in animals it is the best remedy known.

As a Harness Oil it has no equal, also for softening, preserving, and waterproofing Carriage Tops, Leather Aprons, &c., making them much more
durable, and giving them an appearance almost equal to new. **MANUFACTURED BY**

J. & T. SEDDON, East Sculcoates Oil & Grease Works, OXFORD STREET, HULL.

Special Quotations to Shippers and large Buyers.

**A QUICK WAY TO
MAKE MONEY**



90% PROFIT CARRIAGE PAID

25/- of A1 BRAND MENTHOL will realise 48/-,
Or a Profit of 23/-, which is over 90 per cent.

Send a cheque for 25/- and I will forward either of the following together with a **HANDSOME GLASS FRONTED SHOW CASE and ROUND HANDBILLS**:-

Order as Parcel	PARCEL A.	PARCEL B.	PARCEL C.	PARCEL D.
A B C or D.	4 dozen 6d.	3 dozen 1s.	8 dozen 6d.	4 dozen 1s.
	2 " 1s.	2 " 6d.		

Of all Wholesale Houses, or direct from **ARTHUR W. SHIRLEY (Late J. G. Shirley), 30 Paternoster Sq., London, E.C.**

Illustrated Price List post free on application.

EWEN'S GUARANTEED PURE LARD

Trade Mark.

**ORIGINAL & BEST BASIS
FOR OINTMENTS, &c.**

Trade Mark.



**Adeps Præp. } EWEN'S
Adeps Benz. }**

Can be obtained through any
WHOLESALE HOUSE.

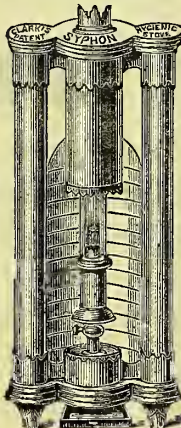
Mutton, Beef, Veal, and Deer Suet and Beef Marrow,
Clarified Trotter and Neats' Foot Oil.

Every variety of **TOILET SOAP** from 56/- to 224/- per cwt.

EWEN'S Clarified Fat Works,
Perfumery and
Toilet Soap Factory,
5 HATFIELD STREET, LONDON, S.E.

50

(Specially adapted for Chemists' Shops.)



THE
"SYPHON"
(REGISTERED TITLE)
(CLARK'S PATENT)
GAS HEATING STOVES.
NO FLUE REQUIRED.

No smoke. No smell. No dirt or trouble. No danger. All sulphurous vapours are condensed inside the Stoves, and passed off as a liquid into tray beneath. The **ONLY SAFE** ones for use in Hospitals, Sick Chambers, Greenhouses, Bedrooms, Halls, Shops, Offices, Churches, Schools, &c. **BEWARE OF IMITATIONS.**

Price Lists and Terms on application to
S. CLARK & CO., Patentees
(Late Hygienic Heating & Lighting Co.),
Park Street Works, Islington, LONDON, N.
Agents: **MAW, SON & THOMPSON, Aldersgate Street, London, E.C.**

NEW MILITARY BLACKING CO., LIM.,

DEBNAMS ROAD, BERMONDSEY, LONDON, S.E.,

MANUFACTURERS OF

INDIAN



REGISTERED TRADE MARK:

INDIAN WATERPROOF BLACKING,

An Unrivalled SELF-POLISHING Oily Liquid.

MILITARY LIQUID JAPAN BLACKING,

In Stone Bottles, 3 Sizes. The finest quality produced.

MILITARY OIL PASTE BLACKING,

Excellent quality, in 1d. and 1d. Skins, and in VERY LARGE 1d., 2d., 3d., and 6d. Tins.

MILITARY DUBBIN AND MILITARY HARNESS COMPO,

Are unsurpassed for Quality and Economy in use. All sizes in Tins.

To insure obtaining our superior qualities specially notice the Trade Marks.

EMPRESS GLOSS,

FOR LADIES' SHOES.

Superior in colour and lustre to any produced. Attractively and tastefully got up, and readily sold, yielding a handsome profit to the retailer with the greatest possible satisfaction to the consumer.

EMPRESS POLISHING CREAM.

The very best for Patent Leather Goods; also for FURNITURE of every kind. In large Bottles and elegant Cartoons.

EMPRESS METAL POLISH,

Unequalled for all kinds of Brass and Metal work, Glass, &c., &c. Most attractively put up in richly ornamented Tins.



SPECIAL AND LIBERAL TERMS TO PROVINCIAL AGENTS & FOR EXPORT.
SEND FOR FULL PRICE LIST AND SAMPLES.

GENUINE OIL OF MUSTARD SEED

Is strongly recommended as a safe and effectual remedy in cases of Rheumatism, Gout, Rheumatic Gout, Sciatica, Lumbago, Headache, Pains in the Stomach, Spasms, Bruises, Chilblains, &c. Retail in Bottles, 1s. each.

Imported by J. H. & S. JOHNSON, Wholesale Druggists,
6 8, & 10 WHITECHAPEL, AND 7 CHURCH STREET LIVERPOOL.

JONES & MASON, METHYLATED SPIRIT MAKERS.

Regent Wharf, Copperfield Road, Mile End, London, E.
FROM RATCLIFF.

SAMPLES AND PRICES UPON APPLICATION.

FOULKES' TOILET & NURSERY POWDER.

IMPALPABLE AND DELICATELY PERFUMED.

This unique Powder possesses the emollient properties of fullers' earth, free from colour, and in a high condition of purity. Unlike Starch, which in various guises forms the "Violet Powder" of commerce, this preparation absorbs without caking, and remains unchanged by both heat and moisture; therefore, to the tender skin of Infants it is peculiarly beneficial and perfectly innocuous. By its use all abrasion or chafing is prevented, and the action of any acrid humour or secretion at once neutralised.

Dr. ALEX. MILNE, Edinburgh, in his recent book entitled: "The Child, and how to Nurse it," says of this favourite powder, "WE RECOMMEND IT IN PREFERENCE TO ALL OTHERS."

SOLD IN BOXES at 6d. and 1s.

2

Wholesale at the Patent Medicine Houses and Druggists' Sundriesmen, or from

W. J. FOULKES, Pharmaceutical Chemist, BIRKENHEAD.



TYPKE & KING,

22 Laurence Pountney Lane, E.C.

Manufactories—MITCHAM & RAINHAM.

Pure Acids—Valerianic Acid and all Valerianates. Antimony Golden Sulphuret, Antim. Crocus Lump, and Powder, Essences of Pear and Pineapple, Potassium Cyanide, Nitrate of Ammonia, crystal and granulated, Potass. Sulphid, Iron Perchloride, solid and solution. Hypophosphites of Lime, Manganese, Soda, Potash, &c.



A. M. TODD,

NOTTAWA, ST. JOSEPH'S CO., MICHIGAN, U.S.A.

"CRYSTAL WHITE" OIL OF PEPPERMINT, &c.,

DOUBLE DISTILLED AND REFINED BY STEAM.

Genuine are sealed with guarantee of absolute purity and highest quality over the manufacturer's signature. This brand of Essential Oils is now recognised throughout the world as the highest quality manufactured.

To be obtained through the leading wholesale trade.

G. F. PEARSON & CO.,

WHOLESALE EXPORT & IMPORT DRUGGISTS,
SECUNDERABAD, DECCAN, INDIA,

The only Wholesale Druggists in the Hyderabad Territory (population over ten millions) invite correspondence with reference to Agencies for Specialities. Are prepared also to give quotations for the most recently-known East India drugs.



BUTTER COLOURING & CHEESE RENNET.

AGENTS AND CORRESPONDENTS:

ALFRED CHOLLET, Saumur,

France

W. & N. BLANDOFF & Co.,

Moscow.

CANEPA & RICHINI, Genoa.

VICTOR FORCELUS, Abo.

HAGE, BLOM & Co., New York.

MEYER & HENCKEL.

Manufacturers, COPENHAGEN (Denmark).

Agents for English Dairy Districts wanted.

ALEX. BRANDES, Hamburg.

GILLES HOEN, Battice, Belgm.

A. MICHELET, Christiania.

KUYPERS & Co., Rotterdam.

DOBBIN, OGILVIE & Co., Cork.

WILL. ADAMSON & Co., Mel-

bourne.

PRECIPITATED CHALK, WHITEST AND PUREST.

Cheapest Sellers in the Market.

ALSO CHEMICALS, DRUGS AND OILS.

APPLY TO

AUG. LEVERMORE & CO.,
8 LIME STREET, LONDON, E.C.

S.V.R. (RECTIFIED PURE SPIRIT)

Choicest quality at lowest rates.

Export and Home Consumption.



EDGELL BROTHERS,
EXTRA FINE 4 Brabant Court, Philpot Lane, London, E.C.

CARMINE PUR.

(ARTISTS')

Chemists and others requiring Pure Carmine of the FINEST QUALITY will find this far superior to any other. It is intensely rich and brilliant in colour, perfectly soluble, and offers great advantage in price.

1 oz., 2s. 6d.; 4 oz., 8s. 6d.; 1 lb., 32s., nett cash, free by post.

J. SELLERS, 9 Farringdon Road, London, E.C.

TO LET.

HORMUSJEE, RUTTONJEE & CO.,

WHOLESALE AND EXPORT DRUGGISTS,
Manufacturing Chemists and General Merchants, Importers and Exporters of Indian and Persian Products, &c.,

No. 6 Borah Musjid Lane Fort, Bombay, India,

Are prepared to accept Agencies for new Specialities, Patent Medicines, Druggists' Sundries, Spirits, Perfumery, &c.

Inventors wishing to have their specialities introduced into India should apply to the above firm. We will be glad to give our best attention to their sale, provided we are entrusted with the sole agency. Correspondence solicited.

TRADE MARK

STYPIUM

REGISTERED

ANTISEPTIC DRESSING

FOR FOUL DISCHARGING SORES, CANCEROUS ULCERS,
PILES, FISTULA, &c.

MADE UP IN 4-lb. AND 1-lb. CASES.

STEPHENSON & TRAVIS, 12 Hopwood St., LIVERPOOL

PHILLIPS & COMPANY, Ltd.,

CHEMISTS,

WINE AND GENERAL MERCHANTS,

BOMBAY AND POONA, INDIA.

E. MEINERTZHAGEN,

9 MINCING LANE, LONDON, E.C.,

Importer of SARSAPARILLA & IPECACUANHA.

ALL DRUGS AND GUMS SORTED AND PACKED.

ANTOINE'S INK.

PARIS.

GREENWICH.

SOLD BY ALL STATIONERS THROUGHOUT THE WORLD

PETROLEUM JELLY,

EQUAL TO AND CHEAPER THAN VASELINE.

SANITARY FLUID AND SHEEP DIP,
THE CHEAPEST AND BEST DISINFECTANT.

BREASE, PITCH, ASPHALTE, AND ALL PRODUCTS OF TAR AND ROSIN.

Samples and Prices on application.

GRINDLEY & CO., POPLAR, LONDON, E.

CHLORODYNE (W.H.B.)

FOR HOSPITAL, DISPENSARY, AND SURGERY USE.

Perfectly miscible, soluble, and inseparable. It neither ferments, cakes up, nor deposits, and being more limpid than other kinds, is more quickly and accurately dispensed. Used for some years in the Corporation of the Poor Dispensary, Exeter, by W. H. Bulley, Dispenser. It is by far the best and cheapest Chlorodyne made for the profession and trade.

N.B.—10 minims contain $\frac{1}{16}$ gr. Morph. Mur. The other active ingredients are Chloroform, Ether, Tinct. Capsici, Ol. M. Pip. and Acid Hydrocy.; 3xx. cgc. free for P.O.O. for 10/; 3ss. Sample Bottle free for six stamps.

Address—W. H. BULLEY, Chemist, EXETER.

BRIDGETON,
GLASGOW.

ESTABLISHED 1840.

29 ROBERT ST.,
MANCHESTER.

J. & D. MAGNAIR & CO.,

MAKERS OF METHYLATED SPIRIT AND FINISH.

IMPORTERS, &c., OF

Shellacs, Gums, Glues, Gelatine, Beeswax, Quinine, Olive Oil
(cases and bulk), Castor Oil, Wax, &c., &c.

Inquiries solicited.

Samples on application.

DR. G. H. JONES, F.R.S.L., &c.,
SURGEON-DENTIST,
 57 GREAT RUSSELL STREET, LONDON
 (Facing British Museum entrance),
 Will forward his New 64-page Pamphlet, entitled "PAINLESS AND PERFECT DENTISTRY," which contains a List of the Diplomas, Gold and Silver Medals, and other Awards obtained at the Great International Exhibitions, to any part of the world, gratis and post free. *Agents Wanted.*

ANALYTICAL AND CONSULTING CHEMIST.
GEO. LOGAN RAIT, F.C.S., &c.
 Laboratory—31 MOORGATE ST., LONDON, E.C.
Assistance given to Manufacturers and others requiring Chemical knowledge.
Fifty per cent. discount allowed to the Trade.

"LA BRILLANTINE"
METALLIC POWDER (REGISTERED)
 Is the best, cheapest, and most effective Powder for cleaning and polishing Metals and Glass (specially Brass). It is used by the LIFE, HORSE, and DRAGOON GUARDS, the FIRE BRIGADES, &c., &c. Sold in 6d. and 1s. Boxes.
Proprietors: J. F. BAUMGARTNER & CO.,
 22 Newman Street, Oxford Street, LONDON, W.

TO LET.

F. FOSTER, M.I.M.E., M.S.A.,
 Licensed Valuer to the Mineral Water, Chemical, Brewing, and Wine & Spirit Trades.
 (BARNETT & FOSTER),
 NIAGARA WORKS, 26r EAGLE WHARF ROAD,
 LONDON, N.

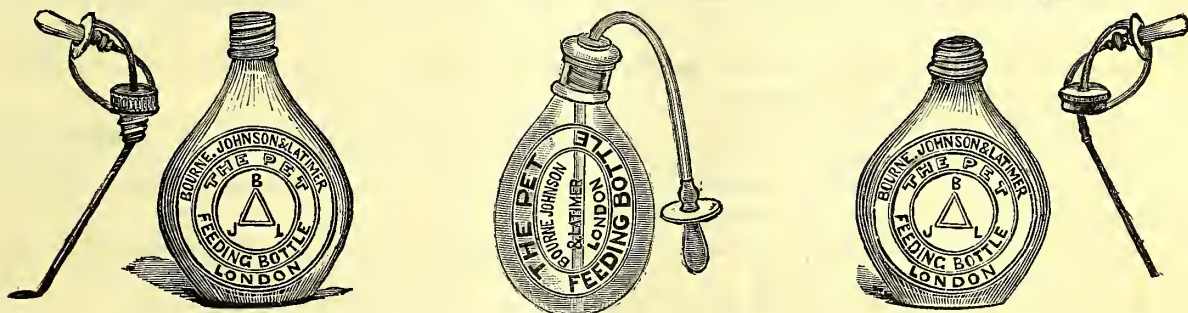
ORANGE WINE
 (VIN. AURANT, F.B.)
 Specially brewed for Quinine Wine, does not deposit. Is well adapted for Export, as it will keep good in any climate. In casks, 13, 27, 56, 112, 140 gallons; small casks 3s. 9d. per gallon, carriage allowed. In wine bottles (not less than 3 doz.), at 9s. per doz., including bottles. Cases extra and returnable.
Sample six stamps. Special quotations to large buyers.
GEO. DURRANT & CO., Hertford.

POWELL & BARSTOW,
 5 Albion Place, Blackfriars Bridge, London, S.E.,
 Late W. HURLSTONE & CO., Blackfriars Road and Vine Street, S.E.,
 MANUFACTURERS TO THE WHOLESALE TRADE OF
ELASTIC GUM SURGICAL INSTRUMENTS.
 WORKS, LAMBETH. ESTABLISHED 1830.

Prepared by
 C. LOWE,
 Surbiton, S.W. **LOWE'S** 1/6 & 2/6.
LIVER MIXTURE
 Wholesale—Sanger, Newbery, Sutton, Barclay, and Edwards.

CHEAP FEEDING BOTTLES.

SPECIAL NOTICE TO THE TRADE.



The name of "PET" is "familiar in our mouths as an household word," and our Feeding Bottle bearing this name has for many years taken the lead as the best in the market for comeliness of shape and superiority of fittings. To enable our customers to compete with those who "cut" the prices, we are prepared to make the following offer for cash—7 days:—

SIXPENNY SIZE—Green glass bottle, bent neck, clean. Four Gross packed in a crate, and delivered from the Works. Fittings delivered from London.
 No. 6, with White Indiarubber and Wood-top Corks per gross 28/0
 No. 7, with Black " 28/0
 No. 11, with Screw Glass, Black Rubber Fittings " 38/6

No smaller quantities can be supplied at those prices, as the price is made low in consequence of the saving in carriage and labour. Fittings are guaranteed to be correct size. Quantities of One Gross will be supplied as heretofore, fitted and packed—

No. 6.—White Rubber per gross 30/0 net cash.
 No. 7.—Black Rubber " 32/0 "
 No. 11.—Screw Glass, Black Rubber " 40/0 "

SHILLING SIZE BOTTLE—In handsome boxes, best black fittings, with tube and bottle brush, in quantities of not less than Six Dozen net, at 6/6 per dozen. These may be all one kind or assorted, with glass screw stoppers, metal screw caps or porcelain caps, oval-shape or bent necks. Smaller quantities at List Prices.

BOURNE, JOHNSON & LATIMER,
 Wholesale and Export Druggists' Sundriesmen,
 34 and 35 FURNIVAL STREET, LONDON, E.C.

THE ONLY PERFECT ENEMA OBTAINABLE.

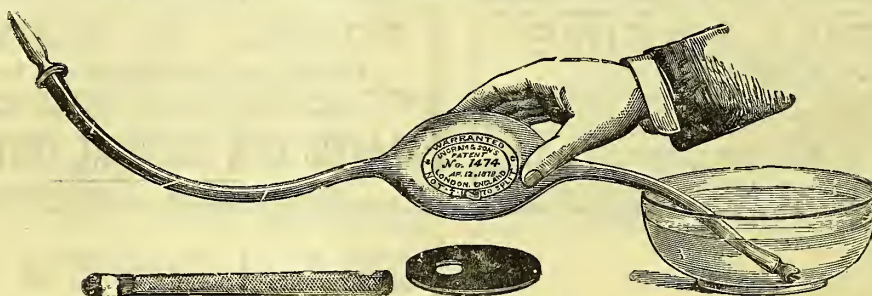
INGRAM'S IMPROVED HIGGINSON ENEMA AND SYRINGE APPARATUS

(BY ROYAL LETTERS PATENT).

Made without Seams or Ribs by our Patent Process of dipping in a solution of India Rubber, thus adding great strength and durability.

NONE GENUINE UNLESS STAMPED WITH NO. OF PATENT 1474.

CAUTION.—The only
Enema made without
Ribs.



All Imitations may be
detected by the Ribs on the
Surface, and are always
liable to split.

WARRANTED NOT TO SPLIT.

A.—Metal Pin Valve.

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA is perfectly smooth on the surface, will not become hard or sticky, will not leak, and will not admit air while injecting or refilling. Specially prepared to resist the heat of tropical countries.

The great superiority of INGRAM'S IMPROVED PATENT SEAMLESS ENEMA over all others has given rise to VARIOUS IMITATIONS, and it has become imperative that the Patentees should, in order to PREVENT DECEPTION, explain the PROCESS OF MANUFACTURE OF THEIR ENEMA and the MODE OF MANUFACTURE OF IMITATIONS thereof, as they have UNDENIABLE PROOF that INFERIOR ENEMAS are positively BEING SOLD as their "ADVERTISED" PATENT SEAMLESS ENEMA.

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA is made by a NEW PATENT PROCESS, viz. : By repeated dipping in a solution of India Rubber until the required substance is attained. This process adds greatly to its STRENGTH and DURABILITY, and, at the same time, dispenses WITH ALL SEAMS, which, as is well known, are weak points in an Enema. This improved mode of manufacture (the result of long study and experience) enables the Patentees to produce a PERFECT ENEMA WITHOUT SEAMS, thus overcoming the great fault to be found in ALL other Enemas, viz. : SPLITTING AND LEAKING, which has always been a source of trouble.

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA is fitted with IMPROVED VALVES, which prevent the admission of air with the fluid and CAN at any time BE REPAIRED, if necessary.

CAUTION.—Imitations of INGRAM'S IMPROVED PATENT SEAMLESS ENEMA are made of several pieces of Sheet India Rubber, which are cemented together and shaped in a mould, THUS PRODUCING RIBS ON THE SURFACE, and ENEMAS SO MANUFACTURED ARE ALWAYS LIABLE TO SPLIT AND LEAK AT THE SEAMS, AND THUS TO BECOME QUITE USELESS.

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA may be distinguished from ALL IMITATIONS by its ENTIRE FREEDOM FROM RIBS OF ANY DESCRIPTION on its surface, and by having an IMPROVED METAL PIN VALVE at the suction end A; and it is acknowledged to be the ONLY PERFECT ENEMA OBTAINABLE.

Patented in England, No. 1474, April 12, 1878; in France, No. 126,909, October 11, 1878; and in America, No. 212,939, March 4, 1879.

To be obtained of all Surgical Instrument Makers, Druggists' Sundriesmen, Chemists and Druggists, in the three following qualities:—

No. 1a. Highly Polished, in Red, Green, Blue, Black, or White.

No. 1b. Unpolished, in Red, Green, Blue, Black, or White.

No. 2. Unpolished, in Drab only.

Favourably noticed in "British Medical Journal," December 13, 1879; in the "Lancet," January 3, 1880; and in "British Medical Journal," September 30, 1882.

THE BEST PARAFFINUM MOLLE, B.P., IN THE MARKET IS
“PETROLINA.”
 PURE, SWEET, NEUTRAL, NON-OXIDISABLE, UNCHANGEABLE.

Determined to give every possible inducement to the Consumer, the BINGHAMTON OIL REFINING CO. have authorised

A STILL FURTHER REDUCTION IN PRICES.

So that Petrolina is now as cheap as any of the inferior jellies.
 Packed in oak kegs of 112 lbs., 56 lbs., and 28 lbs.; also tins of 14 lbs., 5 lbs., and 1 lb.; and in casks of 2 cwt. and 3 cwt.

SAMPLES AND PRICE LISTS FREE ON APPLICATION TO

E. A. DE PASS & CO., SOLE AGENTS, 3 COLEMAN STREET, LONDON, E.C.

Introduced 1855.

One Ounce of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopoeia, and free from all Chemical impurity. They will keep good any length of time in any climate.



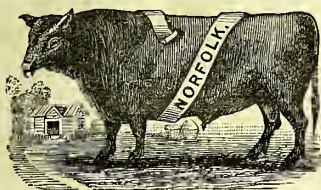
ROBINSON'S CONCENTRATED WATERS.

[Introduced 1855.]

Aqua Anethi, Concent., 4/ lb.	Aqua Cinnam. Ver. Concent., 6/ lb.	Aqua Foeniculi, Concent., 4/ lb.	Aqua Pimentæ, Concent., 4/ lb.
" Anisi " 4/ "	" Cassie " 4/ "	" Ment. Pip. " 4/ "	" Rosæ " 8/6 "
" Camphoræ " 4/ "	" Flor. Aurant. " 8/6 "	" Ang. " 6/ "	" Rosæ Virgin " 10/6 "
" Carui " 4/ "	" Flor. Sambuci " 8/6 "	" Virid. " 4/ "	

The above are put up in Bottles of 1/2 lb. or 1 lb. and upwards, each of which has the Inventor's Protection Label over Cork.
 From the LANCET, July 15, 1882:—"CONCENTRATED WATERS (Robinson's, Pendleton, Manchester).—Among the samples sent to us we find Aq. Anethi, Anisi, Cinnam. Ver., Rosæ, and some dozen of others. Diluted with forty parts of water they form the ordinary waters of the Pharmacopoeia. They are excellent in quality, and will be very useful, especially in country practice."

Wholesale Agents: HEARON & CO., London, and most Provincial Wholesale Druggists. PREPARED BY THE INVENTOR, B. ROBINSON, MANUFACTURING CHEMIST, DISTILLER, AND BREWER OF BRITISH WINES, MANCHESTER.



The Proprietor of the "NORFOLK" CONDITION DRENCHES and other established "NORFOLK" Remedies for Horses and Cattle, begs to inform the trade that these Drenches are now in constant use by more than 1,000 Cowkeepers round London and other centres, besides a large consumption among farmers, &c. throughout the kingdom. When once introduced they are sure of a sale. Retail 1/2 doz. tin, 4s. 6d.; 1 doz., 9s.; 3 doz., 22s. 6d. each. To be had direct of the sole Makers, F. SUTTON & CO., NORWICH, or through any of the London houses.

Handsome Counter Lists furnished to sellers.



BY SPECIAL
APPOINTMENT

SPRATTS PATENT MEAT "FIBRINE" VEGETABLE DOG CAKES (WITH BEETROOT).



BY SPECIAL
APPOINTMENT.

DOG MEDICINES for the Cure of Distemper, Worms, Mange, Eczema, Ear Canker, Rheumatism, and the various other Canine Diseases. Full List and Pamphlet on Canine Diseases, post free.

"COMMON SENSE OF DOG DOCTORING," price 6d.

DOG SOAP.

LOCURIUM. Price 6d. and 2s. per Bottle, retail. A Patent Vegetable Oil, curing Sore Feet in Dogs, Cracked Heels, Broken Knees, or Sore Backs in Horses; and Sores, Bites, and Wounds of all kinds either in man or beast. Small Pamphlets on Canine Diseases supplied free for distribution.

WHOLESALE
TERMS OF

SPRATTS PATENT LIMITED, LONDON, S.E.,

OR YOUR WHOLESALE
HOUSE.

The True Origin of the Old Rhyme.



Where are you going to My Pretty Maid?
 I'm going a milking Sir she said—
 Are your CATTLE all healthy my Pretty Maid?
 They are, thanks to DAY & SONS, Sir she said.

Awarded 26 Prize Medals.

USED EVERYWHERE FOR NEARLY 50 YEARS.

DAY & SONS' WORLD-FAMED HORSE & CATTLE MEDICINES.

DAY & SONS' "PURIFIED DRIFFIELD OILS" (commonly called by Farmers "Days' Black Oils") for Wounds and Injuries of all kinds in all animals; anointing in difficult Lambing and Calving, &c. Price 2/6 per bottle.
 DAY & SONS' "BLACK DRINK," the renowned remedy for Colic or Gripes in Horses, Scour, Diarrhoea, Debility, &c., in all stock. Price 1/6 per bottle, or 19/ per dozen.
 DAY & SONS' "RED DRINK," unequalled for Cleansing after Calving, and all Feverish or Inflammatory Disorders in Cattle. Price 12/ per dozen.
 DAY & SONS' "WHITE OILS," for all External Injuries, Sprains, Swellings, Rheumatism, &c. Price 2/6 per bottle.
 DAY & SONS' "ALTERATIVE POWDERS," for Horses. Price 3/6 per Canister containing one dozen.

INVENTORS AND SOLE PROPRIETORS OF THE "ORIGINAL"
UNIVERSAL MEDICINE CHEST, PRICE £2 4s., carriage paid,
 which contains above five, together with four other, matchless medicines, and easy guide,

Beware of Imitations and note our ONLY Address—
DAY & SONS, CREWE, Cheshire.
 WHOLESALE AGENTS: Messrs. Burgoyne, Burbridges & Co., Sanger & Sons; Evans, Lescher & Webb, London; Messrs. Evans, Sons & Co., Liverpool, &c., &c.

KEENE & ASHWELL'S

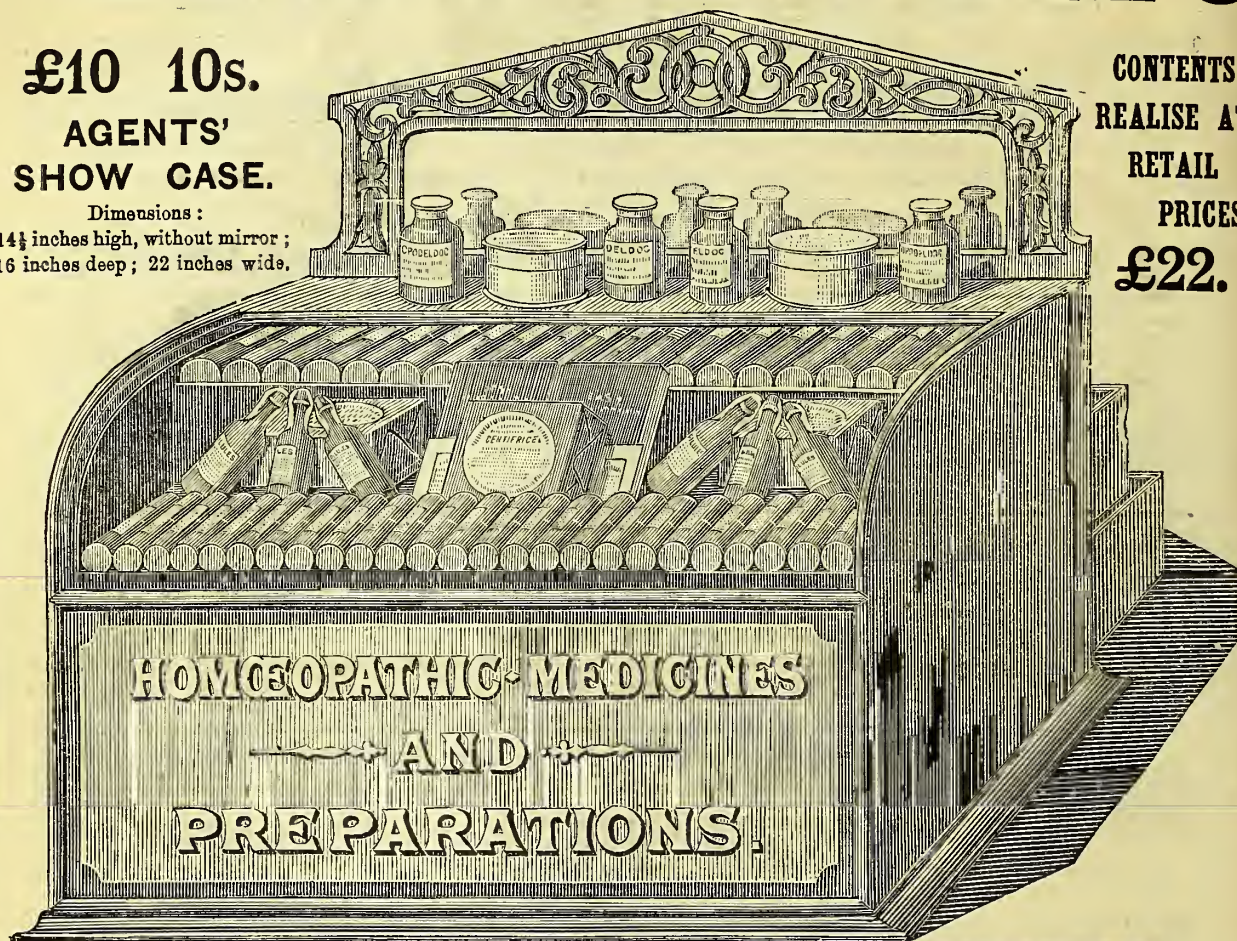
£10 10s.

AGENTS'
SHOW CASE.

Dimensions :

14½ inches high, without mirror ;
16 inches deep ; 22 inches wide.

CONTENTS
REALISE AT
RETAIL
PRICES,
£22.



50/- AGENT'S SHOW CASE.

CONTENTS REALISE AT
RETAIL PRICES **105/-**

Size of 50s. Case, 16 x 10½ x 8.

This is the cheapest and best Homœopathic Show Case in the trade, and the only one with bent glass for the money. A list of others on application.



Homœopathic Medicines supplied in Bulk, and with Keene & Ashwell's "Companion to the Homœopathic Pharmacopœias," Chemists may be their own manufacturers. The "Companion," post free, 3/6, and Price Lists on application.

1/- SIZE, 1 oz. **CAMPBOR PILULES** **3/9** Per doz.

FIND A READY SALE EVERYWHERE.

DEPOT AND LABORATORY, **74 NEW BOND STREET.**
LONDON.

LYNCH & CO., LONDON.

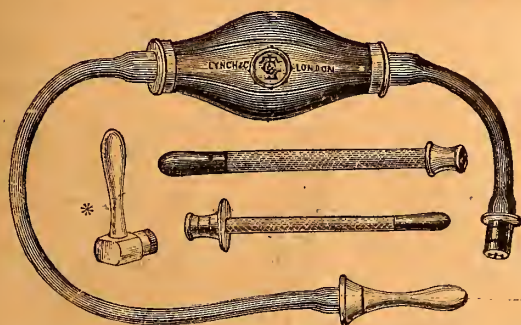


LYNCH'S

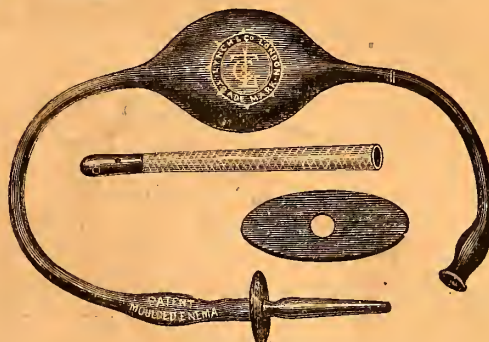
PRIZE MEDAL,



SYDNEY. 1879.



No. 436.



No. 435 D.

ENEMAS.

	Per Doz.	
	£	s. d.
433a. HIGGINSON'S grey india-rubber, with rectum pipe only, in slide cedar box	1	3 6
433b. Ditto, with elastic-gum vagina pipe and leather shield	1	6 6
434. Ordinary Higginson's, barrel shape, with bone rectum pipe, elastic-gum vagina pipe, to plug on, and patent leather shield, in slide cedar box	1	14 0
If fitted with nickel-plated mounts	extra	0 4 0
434a. Ditto, with disconnecting mounts	1	16 0
If fitted with nickel-plated mounts	extra	0 5 0
435d. LYNCH'S (Higginson's principle), black, green, red or white india-rubber, requiring no metal mounts, in one continuous piece, warranted not to split, fitted with vulcanite rectum pipe, elastic-gum vagina pipe, to plug on, and patent leather shield, in slide cedar box	1	16 0
436. LYNCH'S FAMILY (Higginson's principle), fitted with bone bulb-pointed rectum pipe for adults, elastic-gum vagina pipe, and elastic-gum rectum pipe with bone shield for children, in mahogany box	2	9 0
437. Ditto, in slide cedar box	2	3 0
If fitted with nickel-plated mounts	extra	0 6 0
437a. LYNCH'S PERFECTION, in mahogany box	2	17 0
If fitted with nickel-plated mounts	extra	0 7 0

 Nos. 436 to 437A can be fitted with *New Angle Pipe at 4/ per dozen extra.

Discount—10 per cent. Monthly, 5 per cent. Half-yearly Account.

SPECIAL QUOTATIONS FOR 12 DOZEN AND UPWARDS.

LYNCH & CO., ALDERSGATE STREET, LONDON, E.C.

Australian Branch—15 Vaughan's Chambers, 48 Queen Street, Melbourne.

SOLE AGENT—MR. RIVERS LANGTON.

ÆSCULAP BITTER WATER.

INGRAM & ROYLE, having been appointed **SOLE** **CONSIGNEES** for the United Kingdom and Colonies, beg to inform the Trade that the price, on and after this date, will be as follows:—

15s. per doz. Bottles, or 28s. per Case of 25.

12s. " $\frac{1}{2}$ " " 46s. " " 30.

CARRIAGE PAID to any Railway Station in the United Kingdom or Port in Ireland or Scotland.

PAMPHLETS & SHOW CARDS ON APPLICATION.

52 FARRINGDON STREET,
LONDON, E.C.

24th March, 1887.

CADBURY'S COCOA ESSENCE

The medical profession order Cadbury's Cocoa Essence in thousands of cases, as the most wholesome beverage. Be sure

you get it when asked for, as imitations are often pushed for the sake of extra profit.

"We have carefully examined the samples brought under our notice, and find that they are genuine, and that the Essence of Cocoa is just what it is declared to be by Messrs. Cadbury Brothers."—*Lancet*.

"Cocoa treated thus will, we expect, prove to be one of the most nutritious, digestible, and restorative of drinks."—*British Medical Journal*.

GUARANTEED PURE AND SOLUBLE.

SOLE IMPORTERS

OF

APOLLINARIS WATER,

FRIEDRICHSHALL WATER,

HUNYADI JÁNOS WATER,

THE APOLLINARIS CO., LIM.,

19 REGENT STREET, LONDON, S.W.

SPECIAL PRICES ON APPLICATION.